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AUTHOR Hill, Susan T.
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ABSTRACT

This report presents detailed statistical trends in doctorate rewards by science and engineering (S&E). The data were collected by the Survey of Earned Doctorates (SED) and identify field and recipient characteristics, institutions awarding doctorates, and post graduation plans of recipients. Tables include: (1) S&E doctorates awarded by field of study and year of doctorate; (2) S&E doctorates awarded to women by field of study and year of doctorate; (3) S&E doctorates awarded by citizenship status, sex, racial/ethnic group, and major field of study of recipients; (4) S&E doctorates awarded by major field and citizenship status of recipients; (5) percentage distribution of science and engineering doctorates awarded by major field and citizenship status of recipients; (6) non-U.S. citizens awarded doctorates in science and engineering by country of citizenship, visa type, and year of doctorate; (7) institutions conferring S&E doctorates by state, institution, and major field; (8) postgraduation plans of S&E doctorate recipients by citizenship status and major field; (9) percentage distribution of definite postgraduation plans of S&E doctorate recipients by citizenship status and major field; (10) postgraduation plans of S&E doctorate recipients (U.S. citizens and non-U.S. citizens with permanent visas) by sex and major field; and (11) percentage distribution of definite postgraduation plans of S&E doctorate recipients (U.S. citizens and non-U.S. citizens with permanent visas) by sex and major field. (YDS)

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Science and Engineering Doctorate Awards: 2000

Detailed Statistical Tables

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Division of Science Resources Statistics
Directorate for Social, Behavioral, and Economic Sciences
National Science Foundation

November 2001

Science and Engineering Doctorate Awards: 2000

Detailed Statistical Tables

Susan T. Hill, Author

Division of Science Resources Statistics
Directorate for Social, Behavioral, and Economic Sciences

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National Science Foundation
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Director

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General Notes

The data presented in this report show trends in doctorate awards by science and engineering (S&E) field and recipient characteristics, institutions awarding doctorates, and postgraduation plans of recipients. The source of the data is the Survey of Earned Doctorates (SED).

The SED has been conducted annually for the National Science Foundation (NSF) and five other Federal agencies. Information from this survey becomes part of the Doctorate Records File, which is a census of recipients of research doctorates awarded since 1920 by regionally-accredited universities and colleges. Doctoral degrees such as the Ph.D. or D. Sc. are included in these surveys, but first-professional degrees such as the J.D. or M.D. are not.

Data for the SED are collected directly from the individual doctorate recipients. The questionnaire is distributed through the cooperation of the Graduate Deans to persons as they are completing their doctorate. The data for a given year include all doctorates awarded in the 12-month period ending on June 30 of that year.

These tables present detailed data on S&E doctorate recipients, with some totals provided for broad non-S&E fields. Detailed data on non-S&E fields are published in the Summary Report and by other Federal sponsors of the Survey of Earned Doctorates. The groupings of field specialties into broad fields may differ among the sponsoring agencies according to their missions.

Approximately 92 percent of the annual cohort of doctorate recipients in 2000 responded to the questionnaire. Over the period 1991-2000, the response rate varied between 92 and 95 percent. Note that most of the numbers presented are actual self-reports, as there are no adjustments for nonresponse. For the nonrespondents, partial data from public sources are added to the file; therefore, complete counts are presented for conferred doctorates by field of study and sex of recipient. Because some tables present data subject to nonresponse, these summaries represent the conservative known responses for any data item. Therefore, small changes in numbers should be interpreted with caution, as numerical trends are affected by fluctuations in response rates and declines and increases may appear greater than they may be in reality.

For further information on the survey methodology or the availability of data on S&E doctorate recipients, please go to http://www.nsf.gov/sbe/srs/ssed/sedmeth.htm or contact–

Susan T. Hill
Division of Science Resources Statistics
National Science Foundation, Rm. 965
4201 Wilson Boulevard
Arlington, VA 22230

Telephone: (703) 292-7790
E-mail: sthill@nsf.gov

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Table 1. Science and engineering (S&E) doctorates awarded, by field of study and year of doctorate: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Science and engineering, total	24,023	24,675	25,443	26,205	26,534	27,228	27,240	27,277	25,913	25,979
Engineering, total	5,214	5,438	5,698	5,822	6,008	6,305	6,114	5,927	5,328	5,330
Aeronautical/astronautical engineering	207	234	228	230	252	287	273	243	206	215
Chemical engineering, total	691	725	737	725	708	798	767	775	673	726
Chemical	621	607	624	630	602	681	662	668	576	620
Petroleum	28	54	52	42	48	52	51	48	45	44
Polymer/plastics[1]	42	64	61	53	58	65	54	59	52	62
Civil engineering, total	575	594	624	684	656	697	656	650	583	558
Civil	509	540	563	602	572	599	593	587	505	482
Environmental health	66	54	61	82	84	98	63	63	78	76
Electrical engineering, total	1,405	1,483	1,543	1,673	1,731	1,740	1,721	1,596	1,477	1,544
Communications	21	30	22	33	29	32	33	40	38	42
Computer	178	175	167	202	189	208	227	210	205	172
Electrical/electronics	1,206	1,278	1,354	1,438	1,513	1,500	1,461	1,346	1,234	1,330
Industrial/manufacturing engineering[2]	165	196	236	228	284	258	246	229	212	176
Materials/metallurgical engineering, total	489	485	535	539	588	572	581	565	469	451
Ceramic sciences[3]	58	42	42	39	39	41	39	24	33	22
Materials science	361	365	416	433	476	470	482	482	393	404
Metallurgical	70	78	77	67	73	61	60	59	43	25
Mechanical engineering, total	875	987	1,030	1,015	1,025	1,052	1,021	1,023	854	864
Mechanical	762	855	902	883	917	947	928	937	786	807
Engineering mechanics	113	132	128	132	108	105	93	86	68	57
Other engineering, total	807	734	765	728	764	901	849	846	854	796
Agricultural	83	84	86	89	73	104	79	74	59	60
Bioengineering/biomedical	149	147	171	173	189	220	210	207	245	252
Engineering physics	23	25	21	17	17	37	24	15	28	26
Engineering science	42	51	55	46	56	52	45	50	51	34
Mining/mineral	38	26	24	23	19	31	33	21	18	10
Naval architecture/marine[4]	5	na	na	na	na	na	na	na	na	na
Nuclear	107	120	108	85	105	113	102	96	76	98
Ocean	21	21	24	29	21	26	34	29	16	18
Operations research	76	56	56	47	48	74	74	62	67	51
Systems	48	37	57	51	47	47	49	68	42	34
Engineering, general	78	64	47	39	60	60	51	30	39	43
Engineering, other	137	103	116	129	129	137	148	194	213	170
Sciences, total	18,809	19,237	19,745	20,383	20,526	20,923	21,126	21,350	20,585	20,649
Physical sciences, total	3,626	3,781	3,699	3,977	3,841	3,837	3,768	3,823	3,578	3,411
Astronomy, total	125	134	145	144	173	192	198	207	159	187
Astronomy	50	55	76	66	89	84	71	91	59	80
Astrophysics	75	79	69	78	84	108	127	116	100	107
Chemistry, total	2,194	2,214	2,137	2,257	2,162	2,148	2,147	2,215	2,132	1,990
Analytical	304	304	286	334	317	346	350	383	333	326
Inorganic	260	268	237	262	258	249	279	287	279	221
Medicinal/ pharmaceutical[5]	83	69	99	102	96	96	105	114	131	107
Nuclear	14	7	8	10	5	5	8	6	10	9
Organic	538	512	518	544	483	506	566	597	562	524
Physical	364	398	336	334	338	300	334	279	310	271
Polymer	111	83	107	117	116	121	110	122	96	106
Theoretical	45	59	53	52	40	57	48	41	56	52
Chemistry, general	400	449	431	447	458	396	261	285	196	264
Chemistry, other	75	65	62	55	51	72	86	101	159	110

See explanatory information, if any, and SOURCE at end of table.

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Table 1. Science and engineering (S&E) doctorates awarded, by field of study and year of doctorate: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Physics, total	1,286	1,403	1,399	1,548	1,479	1,484	1,401	1,377	1,270	1,205
Acoustics	13	18	27	20	18	19	19	18	16	10
Chemical & atomic/ molecular[5]	76	85	95	140	110	129	106	100	99	110
Electron[4]	1	na	na	na	na	na	na	na	na	na
Elementary particle	182	153	170	176	183	175	170	173	169	147
Fluids	14	17	19	12	18	21	24	26	23	10
Nuclear	66	86	82	90	91	87	106	92	76	74
Optics	85	94	96	104	98	129	123	104	97	117
Plasma & high-temperature[7]	58	65	62	79	46	48	39	55	49	38
Polymer	17	17	29	29	23	33	19	24	28	21
Solid state & low-temperature[8]	372	408	336	388	371	364	328	313	307	279
Physics, general	247	297	340	343	355	323	255	191	205	225
Physics, other	155	163	143	167	166	156	212	281	201	174
Other physical sciences	21	30	18	28	27	13	22	24	17	29
Earth, atmospheric, and ocean sciences, total	815	794	771	824	780	794	878	814	805	757
Atmospheric sciences, total	108	120	99	129	130	125	149	125	124	143
Atmospheric dynamics	21	23	23	27	16	21	25	24	16	17
Atmospheric physics/ chemistry	20	36	13	27	27	22	45	38	43	39
Meteorology	31	28	34	32	25	35	28	25	22	34
Atmospheric science/ meteorology, general	26	27	22	37	44	33	36	22	33	36
Atmospheric science/ meteorology, other	10	6	7	6	18	14	15	16	10	17
Geosciences, total	560	503	479	509	454	452	489	504	452	385
Applied geology[4]	1	na	na	na	na	na	na	na	na	na
Geology	192	166	197	194	186	162	165	171	157	124
Geochemistry	64	62	50	59	42	49	49	58	55	48
Geomorphology/glacial geology	18	12	16	13	11	11	26	20	18	14
Geophysics/seismology	117	108	101	106	93	101	108	106	100	69
Hydrology/water resources	16	29	25	30	24	31	43	35	32	43
Mineralogy/petrology	36	29	9	21	19	23	19	14	14	5
Paleontology	24	25	21	17	20	14	23	23	15	31
Stratigraphy/ sedimentation	29	23	28	27	16	12	23	24	17	13
Geological & related sciences, general	30	18	15	18	21	27	16	13	9	20
Geological & related sciences, other	33	31	17	24	22	22	17	40	35	18
Oceanography, total	112	114	125	125	115	134	144	112	130	135
Marine sciences	27	32	27	34	32	27	30	18	30	35
Oceanography	85	82	98	91	83	107	114	94	100	100
Other environmental sciences	35	57	68	61	81	83	96	73	99	94

See explanatory information, if any, and SOURCE at end of table.

Table 1. Science and engineering (S&E) doctorates awarded, by field of study and year of doctorate: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Mathematical/computer sciences, total	1,839	1,927	2,026	2,021	2,187	2,043	2,033	2,102	1,936	1,909
Mathematics, total	1,039	1,058	1,146	1,118	1,190	1,122	1,123	1,177	1,083	1,048
Algebra	72	69	84	78	82	78	78	75	84	82
Analysis/functional analysis	132	105	105	107	99	100	103	130	86	81
Applied mathematics	193	213	188	206	211	230	242	265	252	238
Computing theory	19	12	18	16	14	18	14	18	14	17
Geometry	66	45	44	35	45	72	70	54	65	59
Logic	23	28	19	29	35	16	23	16	23	19
Mathematical statistics[9]	206	217	228	205	205	178	181	204	174	194
Number theory	30	25	42	37	35	42	46	46	50	40
Operations research	16	22	37	26	36	21	20	17	21	19
Topology	57	58	54	38	51	55	62	65	65	50
Mathematics, general	180	209	276	269	305	233	153	163	116	150
Mathematics, other	45	55	51	72	72	79	131	124	133	99
Computer sciences, total	800	869	880	903	997	921	910	925	853	861
Computer science	720	791	825	833	913	837	829	819	738	722
Information science/ systems	80	78	55	70	84	84	81	106	115	139
Biological/agricultural sciences, total	5,723	5,862	6,060	6,281	6,411	6,760	6,768	6,880	6,546	6,798
Biological sciences, total	4,650	4,799	5,092	5,203	5,375	5,723	5,786	5,843	5,581	5,855
Bacteriology	11	13	14	18	13	16	13	13	13	15
Biochemistry	765	715	846	804	824	794	831	798	760	777
Biomedical sciences[10]	na	na	na	na	93	140	158	184	176	155
Biophysics	100	125	103	123	155	142	147	166	173	164
Biotechnology research[11]	na	na	8	14	4	6	11	12	19	14
Plant genetics	23	33	41	30	35	41	30	40	31	35
Plant pathology	50	32	41	40	32	38	33	18	36	25
Plant physiology	65	68	48	70	55	73	47	61	54	39
Botany, other	105	107	105	117	102	105	91	113	67	92
Anatomy	77	75	76	66	64	47	50	35	33	40
Biometrics/biostatistics	59	63	74	72	67	81	84	75	76	92
Cell biology	149	188	231	237	236	233	251	299	284	337
Developmental biology/ embryology[12]	37	48	57	62	64	96	115	127	108	111
Ecology	189	180	177	201	203	245	255	293	272	297
Endocrinology	33	27	16	26	20	24	17	30	19	20
Entomology	138	139	114	123	121	136	124	138	114	137
Biological immunology[13]	177	181	169	161	190	238	214	245	223	238
Microbiology	372	377	433	423	426	444	410	383	382	383
Molecular biology	481	527	582	598	617	651	772	736	715	705
Neuroscience	238	238	276	284	308	404	437	413	431	495
Nutritional sciences	106	132	134	147	136	142	124	139	102	150
Parasitology	20	17	17	22	14	22	17	15	13	19
Toxicology	86	105	100	120	126	138	180	155	114	123
Human/animal genetics	160	142	172	203	202	212	217	197	216	225
Human/animal pathology	122	114	130	128	109	135	106	90	120	105
Human/animal pharmacology	266	279	274	259	278	316	300	255	254	267
Human/animal physiology	272	266	271	289	262	275	227	258	243	244
Zoology, other	125	134	114	117	145	100	97	111	126	133
Biological sciences, general	278	315	305	288	348	291	209	216	182	200
Biological sciences, other	146	159	164	161	126	138	219	228	225	218

See explanatory information, if any, and SOURCE at end of table.

Table 1. Science and engineering (S&E) doctorates awarded, by field of study and year of doctorate: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Agricultural sciences, total	1,073	1,063	968	1,078	1,036	1,037	982	1,037	965	943
Agronomy & crop science[14]	117	123	104	143	114	110	77	97	106	70
Animal breeding/genetics	18	23	18	17	19	12	24	18	21	22
Animal nutrition	57	41	52	58	50	54	55	45	46	46
Dairy science	19	14	11	11	14	9	14	10	12	9
Poultry science	13	22	16	21	11	12	9	11	8	9
Animal sciences, other	92	97	74	86	85	90	62	60	71	73
Fisheries science & management[15]	39	26	38	48	49	46	45	30	38	43
Wildlife/range management[16]	59	55	54	52	50	64	50	56	44	56
Food engineering[17]	12	14	9	16	7	7	11	13	7	10
Food sciences, other[17]	137	151	141	153	135	142	175	153	137	142
Forest biology[18]	17	29	18	20	24	19	22	20	14	22
Forest engineering[18]	2	2	3	na	4	0	13	2	1	3
Forest management[18]	22	16	17	17	20	22	21	27	17	13
Wood science & pulp/paper technology[18]	16	21	20	26	26	18	25	25	21	11
Conservation/renewable natural resources[18]	19	9	13	21	24	13	17	25	25	19
Forestry & related sciences, other[18]	45	62	55	59	71	56	50	69	49	54
Horticulture science	78	65	62	65	67	73	44	60	66	55
Plant breeding/genetics	69	82	68	81	72	63	67	69	44	68
Plant pathology	90	63	58	55	52	90	65	66	66	63
Plant protection/pest management[19]	2	na	na	na	na	na	na	na	na	na
Plant sciences, other	17	29	28	24	30	21	20	37	38	29
Soil chemistry/ microbiology[20]	24	24	26	21	27	29	32	27	29	26
Soil sciences, other[20]	78	63	59	69	72	78	56	74	67	64
Agricultural sciences, general	3	9	10	4	6	5	10	8	8	10
Agricultural sciences, other	28	23	14	11	7	4	18	35	30	26

See explanatory information, if any, and SOURCE at end of table.

Table 1. Science and engineering (S&E) doctorates awarded, by field of study and year of doctorate: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Psychology, total	3,250	3,263	3,420	3,379	3,429	3,491	3,[illegible]	,676	3,659	3,623
Clinical	1,305	1,309	1,373	1,285	1,291	1,325	1,[illegible]	,344	1,442	1,357
Cognitive psychology & psycholinguistics[21]	94	101	104	129	104	128	166	113	143	141
Comparative	7	2	5	8	4	3	6	6	11	7
Counseling	497	507	488	497	470	464	487	448	460	475
Developmental & child[22]	155	170	202	179	152	188	215	267	193	203
Educational	110	91	91	69	74	92	[illegible]	61	66	97
Experimental	142	154	143	139	151	128	145	149	137	133
Family & marriage counseling[10]	na	na	na	na	57	52	64	51	55	54
Human/individual & family development[23]	na	na	na	129	150	151	126	118	133	148
Industrial/organizational	142	138	159	137	155	162	187	189	158	188
Physiological/ psychobiology[24]	45	55	85	93	92	80	77	92	86	89
Quantitative	7	10	16	17	13	19	17	15	14	8
Personality	13	17	22	19	16	24	26	25	16	23
Psychometrics	9	5	9	5	10	11	11	9	15	13
School	82	88	95	84	91	82	84	106	121	98
Social	147	139	125	153	155	170	181	186	176	209
Psychology, general	324	295	306	280	306	279	319	301	229	239
Psychology, other	171	182	197	156	138	133	129	196	204	141
Social sciences, total	3,556	3,610	3,769	3,901	3,878	3,998	4,111	4,055	4,061	4,151
Economics, total	1,053	1,051	1,067	1,101	1,152	1,177	1,163	1,155	1,075	1,085
Agricultural economics	168	141	137	162	173	169	133	155	149	137
Econometrics	24	25	24	26	27	29	31	25	15	15
Economics	861	885	906	913	952	979	999	975	911	933
Political science, total	740	804	824	930	894	927	974	961	1,017	986
International relations & affairs[25]	88	76	102	112	73	99	88	97	119	77
Political science/ government	434	513	507	589	600	621	665	663	655	670
Public administration	107	108	117	135	128	103	95	104	119	102
Public policy analysis[26]	111	107	98	94	93	104	126	97	124	137
Sociology, total	493	512	535	548	555	527	601	579	571	634
Demography/population studies[27]	28	17	22	23	15	11	24	30	28	19
Sociology	465	495	513	525	540	516	577	549	543	615
Other social sciences, total	1,270	1,243	1,343	1,322	1,277	1,367	1,373	1,360	1,398	1,446
American studies	92	81	101	88	94	115	84	100	98	113
Anthropology	341	320	342	384	375	396	434	425	462	446
Archaeology	33	33	38	34	35	21	35	34	26	36
Area studies	24	33	36	34	27	28	10	14	11	14
Criminology	35	37	39	41	44	60	49	55	51	66
Geography	108	111	137	146	150	165	149	154	144	197
History/philosophy of science & technology[28]	27	28	37	27	41	37	36	43	49	42
Linguistics	227	266	214	221	201	230	244	220	250	229
Statistics	31	29	48	46	48	48	56	61	72	60
Urban affairs & studies[29]	90	86	123	132	103	106	93	77	57	78
Social sciences, general	36	33	32	21	35	26	26	30	25	39
Social sciences, other	226	186	196	148	124	135	157	147	153	126

See explanatory information, if any, and SOURCE at end of table.

Table 1. Science and engineering (S&E) doctorates awarded, by field of study and year of doctorate: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Non-S&E, total[30]	13,511	14,215	14,357	14,829	15,208	15,185	15,305	15,357	15,147	15,389
Health	1,041	1,112	1,197	1,296	1,330	1,324	1,422	1,501	1,404	1,589
Humanities[31]	3,720	4,036	4,091	4,374	4,690	4,713	5,035	5,112	5,028	5,214
Education	6,454	6,677	6,689	6,708	6,649	6,772	6,572	6,568	6,545	6,420
Professional/other	2,296	2,390	2,380	2,451	2,539	2,376	2,276	2,176	2,170	2,166
Grand total, all fields	37,534	38,890	39,800	41,034	41,742	42,413	42,545	42,634	41,060	41,368

1 In 1993 this subfield was changed from "Polymer engineering" to "Polymer and plastics engineering."

2 In 1993 this subfield was changed from "Industrial engineering" to "Industrial and manufacturing engineering."

3 In 1993 this subfield was changed from "Ceramic engineering" to "Ceramic sciences engineering."

4 These subfields were deleted in 1991: "Naval architecture/marine engineering," "Electron physics," and "Applied geology."

5 In 1993 this subfield was changed from "Pharmaceutical chemistry" to "Medicinal and pharmaceutical chemistry."

6 In 1993 this subfield was changed from "Atomic/molecular physics" to "Chemical and atomic/molecular physics."

7 In 1993 this subfield was changed from "Plasma physics" to "Plasma and high-temperature physics."

8 In 1993 this subfield was changed from "Solid state physics" to "Solid state and low-temperature physics."

9 In 1993 this subfield was changed from "Math probability and statistics" to "Mathematical statistics."

10 These subfields were introduced in 1995: "Biomedical sciences" and "Family and marriage counseling."

11 "Biotechnology research" was introduced in 1993.

12 In 1990 this subfield was changed from "Embryology" to "Developmental biology/embryology."

13 In 1993 this subfield was changed from "Immunology" to "Biological immunology."

14 In 1993 this subfield was changed from "Agronomy" to "Agronomy and crop science."

15 In 1993 this subfield was changed from "Fisheries science" to "Fisheries science and management."

16 In 1988 this subfield was changed from "Wildlife management" to "Wildlife/range management."

17 In 1990 "Food sciences" was separated into "Food engineering" and "Food sciences, other."

18 In 1988 "Forestry science" was separated into "Forest biology," "Forest engineering," "Forest management," "Wood science," "Renewable natural resources," and "Forestry and related sciences, other." In 1993 "Pulp and paper technology" was added to "Wood science," and "Conservation" was added to "Renewable natural resources." "Forest engineering" was deleted from the survey in 1994 and reintroduced in 1995.

19 "Plant protection/pest management" was deleted in 1991.

20 In 1988 "Soil sciences" was separated into "Soil chemistry/microbiology" and "Soil sciences, other."

21 In 1993 this subfield was changed from "Cognitive psychology" to "Cognitive psychology and psycholinguistics."

22 In 1993 this subfield was changed from "Developmental psychology" to "Developmental and child psychology."

23 "Human/individual & family development" was introduced in 1994.

24 In 1993 this subfield was changed from "Physiological psychology" to "Physiological psychology/psychobiology."

25 In 1993 this subfield was changed from "International relations" to "International relations and affairs."

26 In 1993 this subfield was changed from "Public policy studies" to "Public policy analysis."

27 In 1993 this subfield was changed from "Demography" to "Demography and population studies."

28 In 1993 this subfield was changed from "History of science" to "History and philosophy of science and technology."

29 In 1993 this subfield was changed from "Urban studies" to "Urban affairs and studies."

30 Non-S&E doctorates include those whose field of specialization is unknown.

31 Categories differ from those published by other Federal sponsors and the Summary Reports in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

KEY: na = Not available (i.e., the subfield was not identified separately in the questionnaire for that year)

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

Table 2. Science and engineering (S&E) doctorates awarded to women, by field of study and year of doctorate: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	Percent women	
											1991	2000
Science and engineering, total	6,932	7,080	7,652	7,921	8,286	8,646	8,941	9,342	9,071	9,396	28.9	36.2
Engineering, total	467	506	522	635	696	776	751	773	791	839	9.0	15.7
Aeronautical/astronautical engineering	7	8	8	11	14	24	16	15	17	21	3.4	9.8
Chemical engineering, total	83	113	94	113	109	143	122	140	123	152	12.0	20.9
Chemical	75	101	83	101	96	126	106	119	101	131	12.1	21.1
Petroleum	1	3	5	3	1	3	3	6	5	6	3.6	13.6
Polymer/plastics [1]	7	9	6	9	12	14	13	15	17	15	16.7	24.2
Civil engineering, total	41	50	54	80	76	79	80	100	89	88	7.1	15.8
Civil	31	36	45	56	55	64	70	83	76	78	6.1	16.2
Environmental health	10	14	9	24	21	15	10	17	13	10	15.2	13.2
Electrical engineering, total	79	115	125	147	173	169	150	156	156	196	5.6	12.7
Communications	2	1	2	5	5	2	3	6	6	7	9.5	16.7
Computer	9	13	15	25	18	23	21	22	33	32	5.1	18.6
Electrical/electronics	68	101	108	117	150	144	126	128	117	157	5.6	11.8
Industrial/manufacturing engineering [2]	17	25	27	33	50	51	40	40	43	35	10.3	19.9
Materials/metallurgical engineering, total	77	61	78	83	95	83	106	84	88	83	15.7	18.4
Ceramic sciences [3]	10	9	6	9	5	3	8	2	9	8	17.2	36.4
Materials science	59	50	67	69	84	71	96	75	75	73	16.3	18.1
Metallurgical	8	2	5	5	6	9	2	7	4	2	11.4	8.0
Mechanical engineering, total	57	45	57	69	64	78	88	93	96	96	6.5	11.1
Mechanical	50	33	46	60	56	68	82	80	85	89	6.6	11.0
Engineering mechanics	7	12	11	9	8	10	6	13	11	7	6.2	12.3
Other engineering, total	106	89	79	99	115	149	149	145	179	168	13.1	21.1
Agricultural	8	6	6	10	7	17	12	5	12	7	9.6	11.7
Bioengineering/biomedical	27	33	31	45	48	49	54	50	63	71	18.1	28.2
Engineering physics	2	2	3	3	1	3	4	3	4	1	8.7	3.8
Engineering science	3	6	3	3	6	4	7	8	4	6	7.1	17.6
Mining/mineral	6	3	1	3	0	3	3	4	2	0	15.8	.0
Naval architecture/marine [4]	0	na	na	na	na	na	na	na	na	na	.0	-
Nuclear	6	9	5	8	9	9	8	10	9	9	5.6	9.2
Ocean	1	0	1	2	3	3	5	0	1	3	4.8	16.7
Operations research	22	11	10	7	8	16	15	15	16	11	28.9	21.6
Systems	4	3	4	5	5	9	10	9	7	6	8.3	17.6
Engineering, general	7	3	3	4	9	11	3	3	4	10	9.0	23.3
Engineering, other	20	13	12	9	19	25	28	38	57	44	14.6	25.9
Sciences, total	6,465	6,574	7,130	7,286	7,590	7,870	8,190	8,569	8,280	8,557	34.4	41.4
Physical sciences, total	679	770	780	828	878	842	852	926	830	836	18.7	24.5
Astronomy, total	14	19	25	25	30	41	37	45	32	41	11.2	21.9
Astronomy	7	11	12	9	18	21	18	22	17	25	14.0	31.3
Astrophysics	7	8	13	16	12	20	19	23	15	16	9.3	15.0
Chemistry, total	517	579	582	625	661	605	613	695	632	624	23.6	31.4
Analytical	83	95	91	102	109	111	106	146	108	121	27.3	37.1
Inorganic	73	69	59	87	92	68	81	84	90	64	28.1	29.0
Medicinal/ pharmaceutical [5]	27	27	38	26	32	32	43	46	50	51	32.5	47.7
Nuclear	4	1	0	0	3	0	0	1	1	3	28.6	33.3
Organic	108	119	131	128	134	118	145	160	163	140	20.1	26.7
Physical	86	109	88	93	93	85	91	77	75	76	23.6	28.0
Polymer	24	12	22	23	28	30	25	40	31	31	21.6	29.2
Theoretical	7	16	16	17	10	14	11	10	9	12	15.6	23.1
Chemistry, general	76	107	112	126	135	119	76	88	52	81	19.0	30.7
Chemistry, other	29	24	25	23	25	28	35	43	53	45	38.7	40.9

See explanatory information, if any, and SOURCE at end of table.

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Table 2. Science and engineering (S&E) doctorates awarded to women, by field of study and year of doctorate: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	Percent women	
											1991	2000
Physics, total	142	167	169	175	182	193	193	177	160	163	11.0	13.5
Acoustics	2	0	1	2	3	2	4	6	1	1	15.4	10.0
Chemical & atomic/ molecular[6]	4	6	14	17	15	10	11	13	14	21	5.3	19.1
Electron[4]	0	na	na	na	na	na	na	na	na	na	.0	-
Elementary particle	20	12	18	16	7	19	21	11	17	15	11.0	10.2
Fluids	0	1	2	1	0	4	0	0	2	0	.0	.0
Nuclear	7	12	8	9	12	9	11	11	9	9	10.6	12.2
Optics	13	9	14	14	13	20	16	18	12	16	15.3	13.7
Plasma & high-temperature[7]	2	4	4	8	5	2	2	2	2	0	3.4	.0
Polymer	3	1	5	4	3	12	7	4	7	6	17.6	28.6
Solid state & low-temperature[8]	42	53	42	53	57	54	51	37	42	42	11.3	15.1
Physics, general	31	42	46	30	41	39	36	29	23	31	12.6	13.8
Physics, other	18	27	15	21	26	22	34	46	31	22	11.6	12.6
Other physical sciences	6	5	4	3	5	3	9	9	6	8	28.6	27.6
Earth, atmospheric, and ocean sciences, total	179	188	160	183	170	172	210	219	209	230	22.0	30.4
Atmospheric sciences, total	16	27	18	26	23	22	25	30	22	33	14.8	23.1
Atmospheric dynamics	3	4	5	9	3	4	5	8	4	3	14.3	17.6
Atmospheric physics/ chemistry	2	5	2	5	8	7	10	7	11	12	10.0	30.8
Meteorology	7	10	3	8	3	2	3	5	1	6	22.6	17.6
Atmospheric science/ meteorology, general	3	7	7	4	7	5	5	8	3	7	11.5	19.4
Atmospheric science/ meteorology, other	1	1	1	0	2	4	2	2	3	5	10.0	29.4
Geosciences, total	124	115	89	95	91	88	119	127	112	109	22.1	28.3
Applied geology[4]	0	na	na	na	na	na	na	na	na	na	.0	-
Geology	34	35	35	32	38	36	39	40	41	29	17.7	23.4
Geochemistry	19	16	13	10	10	10	15	22	21	13	29.7	27.1
Geomorphology/glacial geology	2	5	3	2	4	1	4	8	9	4	11.1	28.6
Geophysics/seismology	20	23	14	24	19	14	19	21	15	16	17.1	23.2
Hydrology/water resources	2	7	9	3	4	5	8	8	5	16	12.5	37.2
Mineralogy/petrology	15	6	1	6	4	11	6	5	3	1	41.7	20.0
Paleontology	7	2	5	2	3	4	11	7	4	14	29.2	45.2
Stratigraphy/ sedimentation	8	10	5	4	1	3	7	4	3	4	27.6	30.8
Geological & related sciences, general	9	4	2	1	4	2	4	5	1	5	30.0	25.0
Geological & related sciences, other	8	7	2	11	4	2	6	7	10	7	24.2	38.9
Oceanography, total	26	29	35	38	28	39	38	32	45	46	23.2	34.1
Marine sciences	2	11	8	11	8	5	8	3	9	17	7.4	48.6
Oceanography	24	18	27	27	20	34	30	29	36	29	28.2	29.0
Other environmental sciences	13	17	18	24	28	23	28	30	30	42	37.1	44.7

See explanatory information, if any, and SOURCE at end of table.

Table 2. Science and engineering (S&E) doctorates awarded to women, by field of study and year of doctorate: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	Percent women	
											1991	2000
Mathematical/computer sciences, total	316	325	402	373	451	370	413	456	433	400	17.2	21.0
Mathematics, total	199	205	264	236	265	231	263	297	277	258	19.2	24.6
Algebra	16	13	28	24	24	18	20	18	25	21	22.2	25.6
Analysis/functional analysis	21	18	23	16	18	15	13	25	19	15	15.9	18.5
Applied mathematics	27	44	43	39	47	52	55	61	59	59	14.0	24.8
Computing theory	3	0	3	2	2	2	1	3	3	2	15.8	11.8
Geometry	5	6	7	4	8	14	13	15	16	8	7.6	13.6
Logic	1	2	4	6	7	1	5	5	5	2	4.3	10.5
Mathematical statistics[9]	56	46	57	50	54	47	46	62	46	71	27.2	36.6
Number theory	8	4	4	5	9	7	11	7	12	5	26.7	12.5
Operations research	4	6	9	9	5	4	5	6	9	3	25.0	15.8
Topology	18	16	9	11	8	5	14	13	15	10	31.6	20.0
Mathematics, general	31	37	56	54	64	45	44	39	22	33	17.2	22.0
Mathematics, other	9	13	21	16	19	21	36	43	46	29	20.0	29.3
Computer sciences, total	117	120	138	137	186	139	150	159	156	142	14.6	16.5
Computer science	96	91	123	118	160	116	132	120	119	104	13.3	14.4
Information science/ systems	21	29	15	19	26	23	18	39	37	38	26.2	27.3
Biological/agricultural sciences, total	1,982	2,064	2,278	2,358	2,445	2,697	2,754	2,832	2,673	2,895	34.6	42.6
Biological sciences, total	1,773	1,831	2,050	2,109	2,217	2,415	2,494	2,534	2,393	2,621	38.1	44.8
Bacteriology	5	5	6	11	6	8	1	4	6	6	45.5	40.0
Biochemistry	289	284	318	320	341	317	364	349	308	325	37.8	41.8
Biomedical sciences[10]	na	na	na	na	42	54	63	81	72	68	-	43.9
Biophysics	26	33	21	33	46	41	41	47	49	49	26.0	29.9
Biotechnology research[11]	na	na	4	2	2	1	3	4	2	6	-	42.9
Plant genetics	5	8	12	5	12	16	11	18	9	17	21.7	48.6
Plant pathology	13	10	15	11	10	13	8	8	12	8	26.0	32.0
Plant physiology	19	16	19	21	21	29	18	28	23	15	29.2	38.5
Botany, other	39	45	43	46	34	44	31	55	25	53	37.1	57.6
Anatomy	31	31	34	29	25	20	19	8	16	17	40.3	42.5
Biometrics/biostatistics	29	24	21	34	23	34	43	39	36	41	49.2	44.6
Cell biology	63	80	116	102	117	107	113	154	135	155	42.3	46.0
Developmental biology/ embryology[12]	20	22	25	32	29	49	61	61	54	60	54.1	54.1
Ecology	60	65	67	70	64	84	108	114	121	116	31.7	39.1
Endocrinology	16	12	12	8	6	13	9	14	9	8	48.5	40.0
Entomology	35	35	28	28	27	36	42	38	37	37	25.4	27.0
Biological immunology[13]	76	83	73	74	82	129	93	115	100	115	42.9	48.3
Microbiology	150	157	183	177	188	185	185	169	163	190	40.3	49.6
Molecular biology	182	194	237	268	265	291	330	322	299	318	37.8	45.1
Neuroscience	88	92	110	129	121	165	190	169	181	195	37.0	39.4
Nutritional sciences	70	95	99	102	92	98	92	96	68	126	66.0	84.0
Parasitology	7	8	7	9	7	12	10	6	6	8	35.0	42.1
Toxicology	30	33	43	50	50	60	80	60	53	58	34.9	47.2
Human/animal genetics	71	61	76	87	92	101	103	91	105	113	44.4	50.2
Human/animal pathology	46	41	45	45	38	52	42	35	54	44	37.7	41.9
Human/animal pharmacology	91	92	121	106	129	142	143	120	113	123	34.2	46.1
Human/animal physiology	107	82	100	106	103	107	82	100	108	101	39.3	41.4
Zoology, other	39	45	32	32	50	31	34	43	47	55	31.2	41.4
Biological sciences, general	113	115	113	117	148	120	86	82	75	83	40.6	41.5
Biological sciences, other	53	63	70	55	47	56	89	104	107	111	36.3	50.9

See explanatory information, if any, and SOURCE at end of table.

Table 2. Science and engineering (S&E) doctorates awarded to women, by field of study and year of doctorate: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	Percent women	
											1991	2000
Agricultural sciences, total	209	233	228	249	228	282	260	298	280	274	19.5	29.1
Agronomy & crop science[14]	11	23	19	17	13	17	10	18	16	14	9.4	20.0
Animal breeding/genetics	2	6	4	3	1	3	4	6	7	4	11.1	18.2
Animal nutrition	10	8	7	10	9	11	13	13	12	8	17.5	17.4
Dairy science	4	2	2	1	3	2	5	2	5	0	21.1	0
Poultry science	1	6	6	5	0	3	2	3	2	3	7.7	33.3
Animal sciences, other	20	21	19	25	19	26	14	16	23	26	21.7	35.6
Fisheries science & management[15]	4	1	4	11	9	10	5	8	7	11	10.3	25.6
Wildlife/range management[16]	8	7	17	13	8	22	13	15	8	11	13.6	19.6
Food engineering[17]	2	2	2	2	0	0	3	3	2	2	16.7	20.0
Food sciences, other[17]	46	60	57	69	54	69	79	66	67	66	33.6	46.5
Forest biology[18]	3	8	7	6	5	4	1	6	4	8	17.6	36.4
Forest engineering[18]	1	0	0	na	0	0	2	0	0	0	50.0	.0
Forest management[18]	4	1	0	2	6	2	4	9	3	2	18.2	15.4
Wood science & pulp/paper technology[18]	2	2	3	6	6	3	2	4	6	1	12.5	9.1
Conservation/renewable natural resources[18]	3	1	4	6	5	3	7	11	9	5	15.8	26.3
Forestry & related sciences, other[18]	5	9	9	6	13	18	15	16	16	17	11.1	31.5
Horticulture science	19	16	15	14	22	22	16	13	16	16	24.4	29.1
Plant breeding/genetics	10	12	14	13	15	13	9	14	13	23	14.5	33.8
Plant pathology	26	20	15	20	9	27	26	24	27	12	28.9	19.0
Plant protection/pest management[19]	0	na	na	na	na	na	na	na	na	na	.0	-
Plant sciences, other	4	6	9	9	3	3	7	14	12	10	23.5	34.5
Soil chemistry/ microbiology[20]	6	3	5	4	5	9	9	7	8	8	25.0	30.8
Soil sciences, other[20]	11	12	4	6	18	14	8	21	11	15	14.1	23.4
Agricultural sciences, general	1	2	2	0	3	0	2	1	0	2	33.3	20.0
Agricultural sciences, other	6	5	4	1	2	1	4	8	6	10	21.4	38.5

See explanatory information, if any, and SOURCE at end of table.

Table 2. Science and engineering (S&E) doctorates awarded to women, by field of study and year of doctorate: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	Percent women	
											1991	2000
Psychology, total	1,996	1,928	2,088	2,101	2,180	2,328	2,370	2,453	2,441	2,414	61.4	66.6
Clinical	848	810	873	842	870	919	901	965	1,034	996	65.0	73.4
Cognitive psychology & psycholinguistics[21]	46	47	48	56	52	60	75	50	70	66	48.9	46.8
Comparative	5	2	3	7	1	2	3	4	7	2	71.4	28.6
Counseling	306	289	284	310	297	303	313	295	295	312	61.6	65.7
Developmental & child[22]	119	131	155	132	121	154	170	207	149	163	76.8	80.3
Educational	64	69	67	39	53	66	45	39	45	63	58.2	64.9
Experimental	64	73	68	71	83	68	70	65	64	59	45.1	44.4
Family & marriage counseling[10]	na	na	na	na	37	28	43	28	38	29	-	53.7
Human/individual & family development[23]	na	na	na	103	118	121	101	90	110	103	-	69.6
Industrial/organizational	76	64	73	69	89	99	103	110	99	112	53.5	59.6
Physiological/ psychobiology[24]	21	25	50	52	35	41	42	49	49	56	46.7	62.9
Quantitative	2	5	11	8	9	7	10	8	7	2	28.6	25.0
Personality	4	8	12	12	9	11	13	15	11	14	30.8	60.9
Psychometrics	3	2	2	1	4	3	7	5	2	5	33.3	38.5
School	57	59	65	53	62	71	66	81	89	77	69.5	78.6
Social	86	78	67	100	84	111	116	117	115	135	58.5	64.6
Psychology, general	185	168	185	158	185	180	200	201	125	136	57.1	56.9
Psychology, other	110	98	125	88	71	84	92	124	132	84	64.3	59.6
Social sciences, total	1,313	1,299	1,422	1,443	1,466	1,461	1,591	1,683	1,694	1,782	36.9	42.9
Economics, total	217	219	246	249	279	263	266	311	291	293	20.6	27.0
Agricultural economics	38	28	31	20	42	37	34	40	39	38	22.6	27.7
Econometrics	5	2	7	4	4	8	4	4	5	3	20.8	20.0
Economics	174	189	208	225	233	218	228	267	247	252	20.2	27.0
Political science, total	211	235	246	282	266	305	297	365	357	365	28.5	37.0
International relations & affairs[25]	24	24	28	24	21	32	19	33	38	26	27.3	33.8
Political science/ government	117	142	129	173	167	186	197	243	216	236	27.0	35.2
Public administration	32	30	41	47	43	37	30	48	48	41	29.9	40.2
Public policy analysis[26]	38	39	48	38	35	50	51	41	55	62	34.2	45.3
Sociology, total	246	250	255	283	294	276	334	317	341	375	49.9	59.1
Demography/population studies[27]	16	5	12	12	6	2	16	13	17	9	57.1	47.4
Sociology	230	245	243	271	288	274	318	304	324	366	49.5	59.5
Other social sciences, total	639	595	675	629	627	617	694	690	705	749	50.3	51.8
American studies	56	47	57	48	53	67	47	52	56	63	60.9	55.8
Anthropology	210	155	213	208	219	214	241	239	262	252	61.6	56.5
Archaeology	20	17	18	17	18	11	20	23	12	24	60.6	66.7
Area studies	5	11	11	17	12	9	5	11	3	4	20.8	28.6
Criminology	18	15	15	12	23	25	25	22	20	34	51.4	51.5
Geography	33	29	40	35	43	45	54	49	49	70	30.6	35.5
History/philosophy of science & technology[28]	11	8	16	10	17	10	13	19	18	17	40.7	40.5
Linguistics	112	133	118	134	102	113	135	123	147	134	49.3	58.5
Statistics	10	11	14	16	11	7	23	21	21	22	32.3	36.7
Urban affairs & studies[29]	22	31	44	43	37	38	29	26	17	28	24.4	35.9
Social sciences, general	17	20	13	9	23	15	14	17	14	20	47.2	51.3
Social sciences, other	125	118	116	80	69	63	88	88	86	81	55.3	64.3

See explanatory information, if any, and SOURCE at end of table.

Table 2. Science and engineering (S&E) doctorates awarded to women, by field of study and year of doctorate: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	Percent women	
											1991	2000
Non-S&E, total[30]	6,941	7,356	7,469	7,899	8,128	8,298	8,305	8,492	8,393	8,725	51.4	56.7
Health	668	710	777	843	843	860	936	1,006	897	1,063	64.2	66.9
Humanities[31]	1,720	1,858	1,918	2,054	2,256	2,343	2,381	2,466	2,416	2,592	46.2	49.7
Education	3,748	3,976	3,921	4,089	4,092	4,179	4,119	4,126	4,195	4,167	58.1	64.9
Professional/other	805	812	853	913	937	916	869	894	885	903	35.1	41.7
Grand total, all fields	13,873	14,436	15,121	15,820	16,414	16,944	17,246	17,834	17,464	18,121	37.0	43.8

1 In 1993 this subfield was changed from "Polymer engineering" to "Polymer and plastics engineering."

2 In 1993 this subfield was changed from "Industrial engineering" to "Industrial and manufacturing engineering."

3 In 1993 this subfield was changed from "Ceramic engineering" to "Ceramic sciences engineering."

4 These subfields were deleted in 1991: "Naval architecture/marine engineering," "Electron physics," and "Applied geology."

5 In 1993 this subfield was changed from "Pharmaceutical chemistry" to "Medicinal and pharmaceutical chemistry."

6 In 1993 this subfield was changed from "Atomic/molecular physics" to "Chemical and atomic/molecular physics."

7 In 1993 this subfield was changed from "Plasma physics" to "Plasma and high-temperature physics."

8 In 1993 this subfield was changed from "Solid state physics" to "Solid state and low-temperature physics."

9 In 1993 this subfield was changed from "Math probability and statistics" to "Mathematical statistics."

10 These subfields were introduced in 1995: "Biomedical sciences" and "Family and marriage counseling."

11 "Biotechnology research" was introduced in 1993.

12 In 1990 this subfield was changed from "Embryology" to "Developmental biology/embryology."

13 In 1993 this subfield was changed from "Immunology" to "Biological immunology."

14 In 1993 this subfield was changed from "Agronomy" to "Agronomy and crop science."

15 In 1993 this subfield was changed from "Fisheries science" to "Fisheries science and management."

16 In 1988 this subfield was changed from "Wildlife management" to "Wildlife/range management."

17 In 1990 "Food sciences" was separated into "Food engineering" and "Food sciences, other."

18 In 1988 "Forestry science" was separated into "Forest biology," "Forest engineering," "Forest management," "Wood science," "Renewable natural resources," and "Forestry and related sciences, other." In 1993 "Pulp and paper technology" was added to "Wood science," and "Conservation" was added to "Renewable natural resources." "Forest engineering" was deleted from the survey in 1994 and reintroduced in 1995.

19 "Plant protection/pest management" was deleted in 1991.

20 In 1988 "Soil sciences" was separated into "Soil chemistry/microbiology" and "Soil sciences, other."

21 In 1993 this subfield was changed from "Cognitive psychology" to "Cognitive psychology and psycholinguistics."

22 In 1993 this subfield was changed from "Developmental psychology" to "Developmental and child psychology."

23 "Human/individual & family development" was introduced in 1994.

24 In 1993 this subfield was changed from "Physiological psychology" to "Physiological psychology/psychobiology."

25 In 1993 this subfield was changed from "International relations" to "International relations and affairs."

26 In 1993 this subfield was changed from "Public policy studies" to "Public policy analysis."

27 In 1993 this subfield was changed from "Demography" to "Demography and population studies."

28 In 1993 this subfield was changed from "History of science" to "History and philosophy of science and technology."

29 In 1993 this subfield was changed from "Urban studies" to "Urban affairs and studies."

30 Non-S&E doctorates include those whose field of specialization is unknown.

31 Categories differ from those published by other Federal sponsors and the Summary Reports in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

KEY: - = Percent not available as data were not collected that year.
na = Not available (i.e., the subfield was not identified separately in the questionnaire for that year)

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens or permanent residents									
Science and engineering, total	15,914	15,942	16,573	18,187	18,996	18,638	18,399	18,245	17,452	17,064
Engineering, total	2,474	2,520	2,697	3,053	3,342	3,387	3,329	3,044	2,876	2,556
Chemical	399	378	377	380	381	391	409	373	371	380
Civil	213	215	227	292	309	305	327	297	311	260
Electrical	686	719	795	899	971	928	938	804	764	643
Mechanical	359	426	434	538	563	588	537	516	461	395
Other engineering	817	782	864	944	1,118	1,175	1,118	1,054	969	878
Sciences, total	13,440	13,422	13,876	15,134	15,654	15,251	15,070	15,201	14,576	14,508
Physical sciences, total	2,300	2,357	2,330	2,789	2,841	2,569	2,497	2,452	2,271	2,084
Astronomy	86	106	111	112	141	149	158	147	117	140
Chemistry	1,461	1,441	1,400	1,616	1,624	1,462	1,439	1,465	1,404	1,236
Physics	739	790	806	1,044	1,059	948	883	822	738	688
Other physical sciences	14	20	13	17	17	10	17	18	12	20
Earth, atmospheric, & ocean sciences	618	541	504	613	594	558	607	562	523	509
Mathematics	518	507	590	657	771	648	629	669	603	568
Computer sciences	451	489	509	543	616	514	521	558	483	458
Biological sciences	3,525	3,568	3,752	4,088	4,329	4,365	4,254	4,304	4,113	4,260
Agricultural sciences	620	573	506	616	598	576	551	543	491	501
Psychology	3,018	2,986	3,161	3,136	3,184	3,228	3,135	3,274	3,238	3,221
Social sciences	2,390	2,401	2,524	2,692	2,721	2,793	2,876	2,839	2,854	2,907
Non-S&E, total	11,516	12,048	12,134	12,707	13,062	12,879	12,682	12,889	12,490	12,773
Health	839	855	939	1,050	1,044	1,016	1,027	1,153	1,039	1,188
Humanities[1]	3,194	3,440	3,511	3,766	4,055	4,045	4,234	4,324	4,274	4,383
Education	5,788	6,017	5,968	6,063	5,995	6,062	5,745	5,740	5,617	5,656
Professional/other	1,695	1,736	1,716	1,828	1,968	1,756	1,676	1,672	1,560	1,546
Grand total, all fields	27,430	27,990	28,707	30,894	32,058	31,517	31,081	31,134	29,942	29,837
	U.S. citizens or permanent residents, American Indian/Alaskan Native									
Science and engineering, total	56	69	43	64	68	97	79	96	116	88
Engineering, total	6	11	2	6	9	15	17	13	12	8
Chemical	1	1	1	1	2	1	4	3	2	1
Civil	1	1	0	0	0	2	2	0	2	1
Electrical	2	4	0	1	1	2	5	3	1	0
Mechanical	1	1	0	0	2	4	6	2	2	3
Other engineering	1	4	1	4	4	6	0	5	5	3
Sciences, total	50	58	41	58	59	82	62	83	104	80
Physical sciences, total	10	12	5	6	7	6	10	10	10	9
Astronomy	0	0	1	0	0	0	1	1	2	1
Chemistry	9	6	2	4	5	4	6	7	5	7
Physics	1	6	2	2	2	2	2	2	3	1
Other physical sciences	0	0	0	0	0	0	1	0	0	0
Earth, atmospheric, & ocean sciences	3	1	4	1	0	2	2	3	6	5
Mathematics	0	2	1	2	2	1	1	3	1	2
Computer sciences	1	2	1	1	0	4	1	3	1	1
Biological sciences	10	13	7	16	15	20	7	12	20	17
Agricultural sciences	4	0	1	1	2	6	5	9	2	4
Psychology	13	15	15	12	14	18	18	31	35	22
Social sciences	9	13	7	19	19	25	18	12	29	20
Non-S&E, total	76	80	77	79	80	91	87	93	101	81
Health	5	5	6	6	9	4	6	4	6	4
Humanities[1]	10	18	10	20	18	18	19	21	21	20
Education	56	50	51	37	41	60	51	50	59	51
Professional/other	5	7	10	16	12	9	11	18	15	6
Grand total, all fields	132	149	120	143	148	188	166	189	217	169

See explanatory information, if any, and SOURCE at end of table.

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Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens or permanent residents, Asian/Pacific Islander									
Science and engineering, total	1,180	1,345	1,610	2,989	3,669	3,095	2,538	2,143	1,949	1,736
Engineering, total	405	451	527	867	1,033	897	707	556	516	447
Chemical	50	54	62	96	101	80	73	65	58	71
Civil	30	34	41	69	91	89	72	38	46	46
Electrical	140	175	199	304	322	276	256	206	173	141
Mechanical	62	78	93	179	189	166	113	90	90	73
Other engineering	123	110	132	219	330	286	193	157	149	116
Sciences, total	775	894	1,083	2,122	2,636	2,198	1,831	1,587	1,433	1,289
Physical sciences, total	172	227	265	600	751	503	402	333	257	203
Astronomy	0	4	4	10	22	12	8	13	3	13
Chemistry	122	135	157	332	416	295	235	206	187	120
Physics	50	88	103	255	312	195	158	113	67	69
Other physical sciences	0	0	1	3	1	1	1	1	0	1
Earth, atmospheric, & ocean sciences	17	27	22	89	104	77	72	51	39	29
Mathematics	57	52	79	142	208	140	97	71	58	70
Computer sciences	66	86	77	117	137	111	108	91	86	77
Biological sciences	261	269	370	720	924	890	723	658	617	550
Agricultural sciences	24	37	29	72	78	81	63	47	45	31
Psychology	59	59	73	109	122	124	127	114	129	149
Social sciences	119	137	168	273	312	272	239	222	202	180
Non-S&E, total	351	419	407	557	640	604	582	579	566	579
Health	44	52	45	94	93	87	87	85	85	99
Humanities[1]	81	99	108	151	194	191	180	194	197	185
Education	130	144	144	173	179	185	181	179	168	174
Professional/other	96	124	110	139	174	141	134	121	116	121
Grand total, all fields	1,531	1,764	2,017	3,546	4,309	3,699	3,120	2,722	2,515	2,315
	U.S. citizens or permanent residents, black									
Science and engineering, total	464	408	469	500	560	576	623	646	716	728
Engineering, total	55	49	50	54	71	74	98	84	97	83
Chemical	8	13	6	8	3	12	16	3	11	9
Civil	12	3	5	8	11	8	10	10	6	6
Electrical	16	17	15	17	24	22	31	23	29	21
Mechanical	3	5	3	7	14	10	12	14	12	18
Other engineering	16	11	21	14	19	22	29	34	39	29
Sciences, total	409	359	419	446	489	502	525	562	619	645
Physical sciences, total	32	25	41	46	43	60	52	56	66	62
Astronomy	0	1	2	0	1	0	2	1	2	1
Chemistry	23	17	31	34	33	45	35	45	56	44
Physics	9	6	7	11	9	15	15	10	8	16
Other physical sciences	0	1	1	1	0	0	0	0	0	1
Earth, atmospheric, & ocean sciences	3	6	4	6	3	4	8	9	14	7
Mathematics	11	4	8	11	5	8	7	16	12	14
Computer sciences	8	5	6	10	11	12	4	14	18	18
Biological sciences	64	62	75	79	108	98	111	110	116	123
Agricultural sciences	17	14	16	22	17	25	25	19	24	18
Psychology	130	106	119	124	151	154	156	156	173	193
Social sciences	144	137	150	148	151	141	162	182	196	210
Non-S&E, total	702	708	811	779	915	880	865	956	1,012	1,047
Health	40	38	59	46	60	49	55	65	56	75
Humanities[1]	92	90	98	106	114	119	142	141	167	161
Education	472	501	557	521	627	608	558	651	652	699
Professional/other	98	79	97	106	114	104	110	99	137	112
Grand total, all fields	1,166	1,116	1,280	1,279	1,475	1,456	1,488	1,602	1,728	1,775

See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens or permanent residents, Hispanic									
Science and engineering, total	493	513	542	548	563	618	656	753	710	704
Engineering, total	61	71	66	66	76	97	95	110	82	80
Chemical	11	16	10	7	12	18	6	13	7	17
Civil	5	7	12	14	11	6	12	16	12	8
Electrical	16	17	17	21	15	27	25	31	29	22
Mechanical	9	11	5	8	8	12	15	19	9	12
Other engineering	20	20	22	16	30	34	37	31	25	21
Sciences, total	432	442	476	482	487	521	561	643	628	624
Physical sciences, total	65	72	79	90	73	66	69	54	62	77
Astronomy	1	4	2	2	4	2	3	2	0	3
Chemistry	46	42	51	59	43	35	44	34	46	50
Physics	18	26	26	29	26	29	22	18	16	23
Other physical sciences	0	0	0	0	0	0	0	0	0	1
Earth, atmospheric, & ocean sciences	16	16	13	8	13	19	16	16	21	18
Mathematics	9	12	16	13	15	10	20	27	15	14
Computer sciences	12	8	7	7	6	16	17	14	14	13
Biological sciences	95	102	114	131	125	128	146	168	173	173
Agricultural sciences	15	18	20	25	21	12	27	35	15	26
Psychology	122	133	131	133	145	173	170	208	208	194
Social sciences	98	81	96	75	89	97	96	121	120	109
Non-S&E, total	375	396	430	482	491	485	537	571	580	575
Health	16	13	24	25	30	38	32	37	46	34
Humanities[1]	136	129	144	168	154	178	207	197	194	208
Education	189	214	222	241	258	216	255	289	285	281
Professional/other	34	40	40	48	49	53	43	48	55	52
Grand total, all fields	868	909	972	1,030	1,054	1,103	1,193	1,324	1,290	1,279
	U.S. citizens or permanent residents, Puerto Rican									
Science and engineering, total	99	120	112	131	137	140	173	173	183	168
Engineering, total	9	13	10	10	13	22	23	17	23	20
Chemical	2	3	2	2	4	4	1	3	2	5
Civil	1	1	1	1	1	1	5	1	2	2
Electrical	0	3	5	3	3	4	4	3	11	6
Mechanical	2	1	1	1	1	3	6	5	2	2
Other engineering	4	5	1	3	4	10	7	5	6	5
Sciences, total	90	107	102	121	124	118	150	156	160	148
Physical sciences, total	17	20	17	26	21	12	20	11	22	19
Astronomy	0	1	0	0	1	0	0	1	0	0
Chemistry	14	14	14	19	17	9	13	9	18	18
Physics	3	5	3	7	3	3	7	1	4	1
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	0	3	1	0	2	3	6	5	5	5
Mathematics	0	2	1	1	1	3	4	7	2	2
Computer sciences	3	1	1	4	0	5	6	2	6	4
Biological sciences	23	27	27	28	30	30	37	43	47	33
Agricultural sciences	0	3	10	5	3	4	5	3	1	6
Psychology	20	35	24	43	44	48	56	71	56	60
Social sciences	27	16	21	14	23	13	16	14	21	19
Non-S&E, total	92	109	120	126	132	109	141	135	150	139
Health	3	4	3	6	12	7	10	7	11	9
Humanities[1]	30	22	36	38	30	38	49	37	31	44
Education	52	76	70	68	69	51	71	77	89	71
Professional/other	7	7	11	14	21	13	11	14	19	15
Grand total, all fields	191	229	232	257	269	249	314	308	333	307

See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens or permanent residents, Mexican American									
Science and engineering, total	126	120	122	145	148	144	160	223	163	210
Engineering, total	14	10	12	15	19	26	18	30	13	25
Chemical	4	1	1	1	3	3	2	1	0	4
Civil	2	2	0	2	7	2	2	5	3	3
Electrical	3	3	2	4	3	9	5	7	4	4
Mechanical	3	2	0	2	2	3	3	3	1	6
Other engineering	2	2	9	6	4	9	6	14	5	8
Sciences, total	112	110	110	130	129	118	142	193	150	185
Physical sciences, total	15	9	12	24	13	22	15	21	16	23
Astronomy	0	0	0	1	1	1	0	1	0	1
Chemistry	12	6	8	19	8	14	9	15	9	17
Physics	3	3	4	4	4	7	6	5	7	5
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	4	7	2	4	4	5	3	5	5	5
Mathematics	3	4	4	4	6	1	3	6	7	8
Computer sciences	0	3	1	2	3	1	2	3	1	4
Biological sciences	26	24	24	30	27	28	44	54	41	46
Agricultural sciences	5	5	4	6	4	1	2	10	3	6
Psychology	35	37	42	40	48	38	49	53	43	60
Social sciences	24	21	21	20	24	22	24	41	34	33
Non-S&E, total	106	99	130	163	140	144	145	199	181	201
Health	3	5	8	5	8	6	7	15	16	11
Humanities[1]	27	24	35	42	34	41	38	58	46	61
Education	67	58	74	102	93	79	90	115	101	116
Professional/other	9	12	13	14	5	18	10	11	18	13
Grand total, all fields	232	219	252	308	288	288	305	422	344	411
	U.S. citizens or permanent residents, other Hispanic									
Science and engineering, total	268	273	308	272	278	334	323	357	364	326
Engineering, total	38	48	44	41	44	49	54	63	46	35
Chemical	5	12	7	4	5	11	3	9	5	8
Civil	2	4	11	11	3	3	5	10	7	3
Electrical	13	11	10	14	9	14	16	21	14	12
Mechanical	4	8	4	5	5	6	6	11	6	4
Other engineering	14	13	12	7	22	15	24	12	14	8
Sciences, total	230	225	264	231	234	285	269	294	318	291
Physical sciences, total	33	43	50	40	39	32	34	22	24	35
Astronomy	1	3	2	1	2	1	3	0	0	2
Chemistry	20	22	29	21	18	12	22	10	19	15
Physics	12	18	19	18	19	19	9	12	5	17
Other physical sciences	0	0	0	0	0	0	0	0	0	1
Earth, atmospheric, & ocean sciences	12	6	10	4	7	11	7	6	11	8
Mathematics	6	6	11	8	8	6	13	14	6	4
Computer sciences	9	4	5	1	3	10	9	9	7	5
Biological sciences	46	51	63	73	68	70	65	71	85	94
Agricultural sciences	10	10	6	14	14	7	20	22	11	14
Psychology	67	61	65	50	53	87	65	84	109	74
Social sciences	47	44	54	41	42	62	56	66	65	57
Non-S&E, total	177	188	180	193	219	232	251	237	249	235
Health	10	4	13	14	10	25	15	15	19	14
Humanities[1]	79	83	73	88	90	99	120	102	117	103
Education	70	80	78	71	96	86	94	97	95	94
Professional/other	18	21	16	20	23	22	22	23	18	24
Grand total, all fields	445	461	488	465	497	566	574	594	613	561

See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens or permanent residents, white									
Science and engineering, total	13,324	13,327	13,737	13,890	13,906	14,007	13,827	14,008	13,660	13,415
Engineering, total	1,837	1,880	2,025	2,020	2,093	2,262	2,287	2,170	2,103	1,878
Chemical	322	284	295	259	257	275	294	276	286	278
Civil	159	166	168	199	194	199	220	216	241	193
Electrical	478	487	553	548	590	588	578	523	510	442
Mechanical	266	326	328	337	339	392	376	371	334	276
Other engineering	612	617	681	677	713	808	819	784	732	689
Sciences, total	11,487	11,447	11,712	11,870	11,813	11,745	11,540	11,838	11,557	11,537
Physical sciences, total	1,969	1,974	1,911	2,025	1,924	1,887	1,883	1,912	1,834	1,685
Astronomy	83	95	100	97	111	131	132	120	109	116
Chemistry	1,239	1,220	1,145	1,179	1,112	1,063	1,078	1,127	1,088	984
Physics	634	641	656	736	687	684	658	649	626	568
Other physical sciences	13	18	10	13	14	9	15	16	11	17
Earth, atmospheric, & ocean sciences	557	485	455	504	464	449	487	464	431	432
Mathematics	419	425	476	479	535	479	479	526	505	460
Computer sciences	355	378	410	401	452	356	361	411	348	337
Biological sciences	3,041	3,068	3,146	3,107	3,118	3,175	3,158	3,246	3,127	3,306
Agricultural sciences	545	493	438	487	473	444	411	418	398	412
Psychology	2,652	2,636	2,807	2,730	2,727	2,744	2,523	2,650	2,668	2,601
Social sciences	1,949	1,988	2,069	2,137	2,120	2,211	2,238	2,211	2,246	2,304
Non-S&E, total	9,862	10,299	10,315	10,705	10,815	10,683	10,126	10,277	10,046	10,236
Health	720	735	800	867	836	823	827	930	832	954
Humanities[1]	2,821	3,061	3,109	3,283	3,521	3,487	3,525	3,605	3,619	3,698
Education	4,889	5,051	4,965	5,044	4,853	4,943	4,451	4,413	4,382	4,357
Professional/other	1,432	1,452	1,441	1,511	1,605	1,430	1,323	1,329	1,213	1,227
Grand total, all fields	23,186	23,626	24,052	24,595	24,721	24,690	23,953	24,285	23,706	23,651
	U.S. citizens or permanent residents, men									
Science and engineering, total	10,317	10,365	10,549	11,693	12,084	11,675	11,406	11,082	10,442	9,950
Engineering, total	2,158	2,192	2,349	2,605	2,822	2,862	2,816	2,593	2,384	2,072
Chemical	339	296	313	302	293	293	332	297	296	281
Civil	188	192	195	237	257	258	269	239	250	212
Electrical	638	652	715	811	851	822	832	713	682	553
Mechanical	322	401	398	484	514	528	482	466	401	339
Other engineering	671	651	728	771	907	961	901	878	755	687
Sciences, total	8,159	8,173	8,200	9,088	9,262	8,813	8,590	8,489	8,058	7,878
Physical sciences, total	1,846	1,843	1,809	2,164	2,133	1,959	1,910	1,849	1,718	1,537
Astronomy	79	91	88	91	116	114	132	120	92	104
Chemistry	1,093	1,040	999	1,152	1,087	1,023	1,008	1,003	978	814
Physics	663	696	712	907	916	814	759	715	642	605
Other physical sciences	11	16	10	14	14	8	11	11	6	14
Earth, atmospheric, & ocean sciences	461	394	384	469	450	428	443	391	372	342
Mathematics	406	390	426	506	588	503	452	471	411	405
Computer sciences	357	406	400	449	473	423	421	435	379	372
Biological sciences	2,135	2,130	2,168	2,345	2,470	2,424	2,335	2,386	2,254	2,276
Agricultural sciences	483	423	372	456	463	401	396	360	331	336
Psychology	1,128	1,206	1,223	1,169	1,128	1,045	1,023	1,065	1,054	1,046
Social sciences	1,343	1,381	1,418	1,530	1,557	1,630	1,610	1,532	1,539	1,564
Non-S&E, total	5,295	5,447	5,439	5,679	5,791	5,517	5,506	5,479	5,308	5,299
Health	252	226	260	328	325	293	288	310	324	341
Humanities[1]	1,703	1,832	1,815	1,978	2,075	2,000	2,202	2,220	2,196	2,211
Education	2,347	2,347	2,378	2,307	2,243	2,238	2,059	2,056	1,949	1,919
Professional/other	993	1,042	986	1,066	1,148	986	957	893	839	828
Grand total, all fields	15,612	15,812	15,988	17,372	17,875	17,192	16,912	16,561	15,750	15,249

See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens or permanent residents, men, American Indian/Alaskan Native									
Science and engineering, total	37	42	25	40	42	62	45	54	60	43
Engineering, total	4	8	2	4	9	13	14	9	10	4
Chemical	0	1	1	1	2	1	3	0	1	0
Civil	1	0	0	0	0	1	1	0	1	0
Electrical	1	3	0	1	1	1	5	3	1	0
Mechanical	1	1	0	0	2	4	5	2	2	2
Other engineering	1	3	1	2	4	6	0	4	5	2
Sciences, total	33	34	23	36	33	49	31	45	50	39
Physical sciences, total	8	10	3	5	5	5	10	9	7	7
Astronomy	0	0	1	0	0	0	1	1	1	0
Chemistry	7	4	1	4	3	3	6	6	3	6
Physics	1	6	1	1	2	2	2	2	3	1
Other physical sciences	0	0	0	0	0	0	1	0	0	0
Earth, atmospheric, & ocean sciences	2	1	4	1	0	2	1	2	3	4
Mathematics	0	1	1	2	1	1	1	1	1	1
Computer sciences	1	2	0	0	0	2	0	3	0	1
Biological sciences	6	8	5	11	10	11	4	6	10	10
Agricultural sciences	4	0	1	1	2	2	5	7	1	3
Psychology	5	6	6	5	6	9	6	13	12	3
Social sciences	7	6	3	11	9	17	4	4	16	10
Non-S&E, total	37	40	35	31	38	41	33	50	37	33
Health	3	3	0	1	2	1	2	1	0	1
Humanities[1]	3	12	7	12	10	10	8	14	11	11
Education	29	20	21	10	17	22	18	26	19	17
Professional/other	2	5	7	8	9	8	5	9	7	4
Grand total, all fields	74	82	60	71	80	103	78	104	97	76
	U.S. citizens or permanent residents, men, Asian/Pacific Islander									
Science and engineering, total	806	927	1,079	2,169	2,554	2,112	1,644	1,379	1,225	1,046
Engineering, total	356	390	466	748	863	763	588	458	430	338
Chemical	41	38	55	71	76	62	61	46	44	49
Civil	26	32	39	65	77	75	58	32	41	36
Electrical	135	154	174	273	276	246	217	175	147	108
Mechanical	59	74	90	155	166	149	97	79	77	57
Other engineering	95	92	108	184	268	231	155	126	121	88
Sciences, total	450	537	613	1,421	1,691	1,349	1,056	921	795	708
Physical sciences, total	124	147	168	422	540	358	269	231	162	132
Astronomy	0	2	2	9	18	8	7	10	3	9
Chemistry	86	79	85	203	270	187	142	134	105	66
Physics	38	66	80	208	251	162	120	86	54	57
Other physical sciences	0	0	1	2	1	1	0	1	0	0
Earth, atmospheric, & ocean sciences	11	19	14	72	76	65	52	32	28	17
Mathematics	39	33	43	116	158	104	69	44	36	49
Computer sciences	51	74	58	101	107	95	82	68	67	62
Biological sciences	132	136	198	451	513	483	373	367	335	282
Agricultural sciences	16	25	20	52	62	51	45	29	28	22
Psychology	15	20	22	32	43	31	32	29	34	48
Social sciences	62	83	90	175	192	162	134	121	105	96
Non-S&E, total	166	209	208	300	312	290	246	261	259	219
Health	21	22	22	48	52	47	37	35	38	36
Humanities[1]	39	48	42	84	83	86	73	81	85	67
Education	45	48	58	66	59	71	52	71	62	53
Professional/other	61	91	86	102	118	86	84	74	74	63
Grand total, all fields	972	1,136	1,287	2,469	2,866	2,402	1,890	1,640	1,484	1,265

See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens or permanent residents, men, black									
Science and engineering, total	270	238	261	284	290	323	332	296	349	324
Engineering, total	47	43	39	41	56	55	75	62	73	58
Chemical	7	12	3	4	2	7	10	2	7	3
Civil	10	3	3	6	8	7	10	8	4	5
Electrical	14	15	13	14	20	17	27	19	24	19
Mechanical	2	5	3	6	13	7	11	14	11	13
Other engineering	14	8	17	11	13	17	17	19	27	18
Sciences, total	223	195	222	243	234	268	257	234	276	266
Physical sciences, total	27	19	31	33	25	47	41	25	37	41
Astronomy	0	0	2	0	1	0	1	1	0	0
Chemistry	18	12	22	25	16	35	26	17	33	25
Physics	9	6	7	7	8	12	14	7	4	15
Other physical sciences	0	1	0	1	0	0	0	0	0	1
Earth, atmospheric, & ocean sciences	2	5	4	5	3	2	7	6	9	3
Mathematics	7	4	7	8	4	6	5	9	6	7
Computer sciences	4	4	2	8	7	9	3	6	9	13
Biological sciences	32	38	43	34	65	58	51	41	50	47
Agricultural sciences	16	10	12	16	11	25	19	15	16	10
Psychology	44	28	44	46	39	39	43	43	40	45
Social sciences	91	87	79	93	80	82	88	89	109	100
Non-S&E, total	282	281	318	269	325	318	309	318	345	326
Health	17	14	18	11	18	13	15	14	12	14
Humanities[1]	44	47	56	51	53	53	68	69	70	71
Education	179	174	201	161	204	203	173	192	195	188
Professional/other	42	46	43	46	50	49	53	43	68	53
Grand total, all fields	552	519	579	553	615	641	641	614	694	650
	U.S. citizens or permanent residents, men, Hispanic									
Science and engineering, total	307	308	320	318	336	346	392	427	355	370
Engineering, total	51	56	54	60	65	82	72	97	59	68
Chemical	7	12	7	7	10	12	3	13	3	14
Civil	3	6	10	11	10	6	11	13	6	7
Electrical	16	14	14	21	14	23	19	29	25	21
Mechanical	7	9	5	7	8	12	12	18	8	11
Other engineering	18	15	18	14	23	29	27	24	17	15
Sciences, total	256	252	266	258	271	264	320	330	296	302
Physical sciences, total	54	52	59	69	52	54	54	43	40	52
Astronomy	1	3	2	2	2	1	2	2	0	2
Chemistry	37	26	33	43	29	28	32	25	25	29
Physics	16	23	24	24	21	25	20	16	15	20
Other physical sciences	0	0	0	0	0	0	0	0	0	1
Earth, atmospheric, & ocean sciences	14	10	11	6	7	13	11	10	17	15
Mathematics	5	9	14	10	11	10	14	20	10	7
Computer sciences	11	7	6	7	2	9	15	13	11	10
Biological sciences	56	59	57	69	79	62	84	89	98	82
Agricultural sciences	12	14	15	13	16	9	20	22	8	15
Psychology	52	55	45	43	48	53	63	56	56	54
Social sciences	52	46	59	41	56	54	59	77	56	67
Non-S&E, total	152	174	197	200	201	214	232	255	212	229
Health	7	4	8	7	15	16	8	12	15	10
Humanities[1]	64	66	72	79	72	85	107	103	89	98
Education	65	82	94	82	91	87	93	112	86	99
Professional/other	16	22	23	32	23	26	24	28	22	22
Grand total, all fields	459	482	517	518	537	560	624	682	567	599

See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens or permanent residents, men, Puerto Rican									
Science and engineering, total	52	71	70	72	74	72	100	69	88	74
Engineering, total	7	10	8	10	11	17	19	16	15	16
Chemical	1	3	2	2	3	2	1	3	1	3
Civil	1	1	0	1	1	1	5	1	1	2
Electrical	0	2	4	3	3	4	3	3	9	6
Mechanical	2	0	1	1	1	3	6	5	2	2
Other engineering	3	4	1	3	3	7	4	4	2	3
Sciences, total	45	61	62	62	63	55	81	53	73	58
Physical sciences, total	11	14	12	19	12	8	18	6	13	9
Astronomy	0	1	0	0	0	0	0	1	0	0
Chemistry	9	9	9	13	9	6	11	4	9	8
Physics	2	4	3	6	3	2	7	1	4	1
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	0	3	1	0	1	3	4	2	4	5
Mathematics	0	1	1	1	0	3	3	4	2	1
Computer sciences	3	1	0	4	0	4	6	1	5	4
Biological sciences	12	16	16	14	21	12	21	20	24	11
Agricultural sciences	0	3	7	2	3	3	4	2	0	3
Psychology	6	16	13	13	13	15	20	12	16	12
Social sciences	13	7	12	9	13	7	5	6	9	13
Non-S&E, total	32	39	51	51	46	40	55	59	52	50
Health	2	3	0	2	7	2	3	3	5	3
Humanities[1]	11	10	18	16	14	16	26	20	14	19
Education	16	23	25	23	19	17	21	28	23	23
Professional/other	3	3	8	10	6	5	5	8	10	5
Grand total, all fields	84	110	121	123	120	112	155	128	140	124
	U.S. citizens or permanent residents, men, Mexican American									
Science and engineering, total	84	79	73	87	89	91	91	136	90	125
Engineering, total	12	10	10	13	18	23	11	27	9	22
Chemical	3	1	1	1	2	2	1	1	0	3
Civil	2	2	0	2	7	2	1	4	1	3
Electrical	3	3	2	4	3	8	2	7	3	4
Mechanical	2	2	0	2	2	3	3	3	1	6
Other engineering	2	2	7	4	4	8	4	12	4	6
Sciences, total	72	69	63	74	71	68	80	109	81	103
Physical sciences, total	12	7	9	20	9	19	13	18	11	20
Astronomy	0	0	0	1	0	1	0	1	0	1
Chemistry	10	4	6	16	6	12	7	12	5	14
Physics	2	3	3	3	3	6	6	5	6	5
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	4	5	2	4	3	3	2	4	4	4
Mathematics	1	4	3	3	4	1	2	3	5	4
Computer sciences	0	3	1	2	1	1	2	3	1	3
Biological sciences	19	11	13	17	16	16	22	32	25	27
Agricultural sciences	4	4	3	4	3	1	2	7	3	4
Psychology	20	19	16	17	15	18	20	18	16	21
Social sciences	12	16	16	7	20	9	17	24	16	20
Non-S&E, total	48	46	59	74	70	71	70	83	70	82
Health	0	0	3	2	3	2	0	1	5	2
Humanities[1]	14	14	19	23	21	21	22	33	26	26
Education	28	26	30	38	42	38	42	44	34	47
Professional/other	6	6	7	11	4	10	6	5	5	7
Grand total, all fields	132	125	132	161	159	162	161	219	160	207

See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens or permanent residents, men, other Hispanic									
Science and engineering, total	171	158	177	159	173	193	201	222	177	171
Engineering, total	32	36	36	37	36	42	42	54	35	30
Chemical	3	8	4	4	5	8	1	9	2	8
Civil	0	3	10	8	2	3	5	8	4	2
Electrical	13	9	8	14	8	11	14	19	13	11
Mechanical	3	7	4	4	5	6	3	10	5	3
Other engineering	13	9	10	7	16	14	19	8	11	6
Sciences, total	139	122	141	122	137	141	159	168	142	141
Physical sciences, total	31	31	38	30	31	27	23	19	16	23
Astronomy	1	2	2	1	2	0	2	0	0	1
Chemistry	18	13	18	14	14	10	14	9	11	7
Physics	12	16	18	15	15	17	7	10	5	14
Other physical sciences	0	0	0	0	0	0	0	0	0	1
Earth, atmospheric, & ocean sciences	10	2	8	2	3	7	5	4	9	6
Mathematics	4	4	10	6	7	6	9	13	3	2
Computer sciences	8	3	5	1	1	4	7	9	5	3
Biological sciences	25	32	28	38	42	34	41	37	49	44
Agricultural sciences	8	7	5	7	10	5	14	13	5	8
Psychology	26	20	16	13	20	20	23	26	24	21
Social sciences	27	23	31	25	23	38	37	47	31	34
Non-S&E, total	72	89	87	75	85	103	107	113	90	97
Health	5	1	5	3	5	12	5	8	5	5
Humanities[1]	39	42	35	40	37	48	59	50	49	53
Education	21	33	39	21	30	32	30	40	29	29
Professional/other	7	13	8	11	13	11	13	15	7	10
Grand total, all fields	243	247	264	234	258	286	308	335	267	268
	U.S. citizens or permanent residents, men, white									
Science and engineering, total	8,585	8,624	8,725	8,732	8,683	8,652	8,560	8,519	8,232	7,909
Engineering, total	1,602	1,640	1,764	1,715	1,772	1,915	1,955	1,864	1,751	1,549
Chemical	277	225	244	211	197	206	242	224	236	212
Civil	143	147	143	153	160	168	180	171	194	159
Electrical	444	447	504	494	523	522	524	470	465	389
Mechanical	236	307	296	311	314	353	343	334	289	243
Other engineering	502	514	577	546	578	666	666	665	567	546
Sciences, total	6,983	6,984	6,961	7,017	6,911	6,737	6,605	6,655	6,481	6,360
Physical sciences, total	1,586	1,575	1,523	1,617	1,476	1,456	1,471	1,464	1,438	1,265
Astronomy	77	84	79	78	92	101	110	96	87	89
Chemistry	926	902	846	872	760	755	773	784	795	661
Physics	573	575	590	656	613	593	578	575	550	503
Other physical sciences	10	14	8	11	11	7	10	9	6	12
Earth, atmospheric, & ocean sciences	415	353	345	381	356	340	358	324	306	292
Mathematics	335	332	352	361	409	374	344	376	347	334
Computer sciences	282	309	327	326	348	295	295	327	278	275
Biological sciences	1,871	1,847	1,835	1,758	1,773	1,774	1,759	1,811	1,723	1,794
Agricultural sciences	422	364	323	367	369	307	293	278	274	277
Psychology	991	1,078	1,096	1,029	983	907	832	887	905	877
Social sciences	1,081	1,126	1,160	1,178	1,197	1,284	1,253	1,188	1,210	1,246
Non-S&E, total	4,569	4,656	4,623	4,827	4,851	4,581	4,434	4,378	4,364	4,365
Health	199	177	208	258	234	212	219	235	255	271
Humanities[1]	1,516	1,629	1,606	1,727	1,820	1,735	1,848	1,854	1,902	1,895
Education	2,002	1,997	1,992	1,968	1,858	1,832	1,618	1,588	1,558	1,531
Professional/other	852	853	817	874	939	802	749	701	649	668
Grand total, all fields	13,154	13,280	13,348	13,559	13,534	13,233	12,994	12,897	12,596	12,274

See explanatory information, if any, and SOURCE at end of table.

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Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens or permanent residents, women									
Science and engineering, total	5,597	5,577	6,024	6,494	6,912	6,963	6,993	7,163	7,010	7,114
Engineering, total	316	328	348	448	520	525	513	451	492	484
Chemical	60	82	64	78	88	98	77	76	75	99
Civil	25	23	32	55	52	47	58	58	61	48
Electrical	48	67	80	88	120	106	106	91	82	90
Mechanical	37	25	36	54	49	60	55	50	60	56
Other engineering	146	131	136	173	211	214	217	176	214	191
Sciences, total	5,281	5,249	5,676	6,046	6,392	6,438	6,480	6,712	6,518	6,630
Physical sciences, total	454	514	521	625	708	610	587	603	553	547
Astronomy	7	15	23	21	25	35	26	27	25	36
Chemistry	368	401	401	464	537	439	431	462	426	422
Physics	76	94	94	137	143	134	124	107	96	83
Other physical sciences	3	4	3	3	3	2	6	7	6	6
Earth, atmospheric, & ocean sciences	157	147	120	144	144	130	164	171	151	167
Mathematics	112	117	164	151	183	145	177	198	192	163
Computer sciences	94	83	109	94	143	91	100	123	104	86
Biological sciences	1,390	1,438	1,584	1,743	1,859	1,941	1,919	1,918	1,859	1,984
Agricultural sciences	137	150	134	160	135	175	155	183	160	165
Psychology	1,890	1,780	1,938	1,967	2,056	2,183	2,112	2,209	2,184	2,175
Social sciences	1,047	1,020	1,106	1,162	1,164	1,163	1,266	1,307	1,315	1,343
Non-S&E, total	6,221	6,601	6,695	7,028	7,271	7,362	7,176	7,410	7,182	7,474
Health	587	629	679	722	719	723	739	843	715	847
Humanities[1]	1,491	1,608	1,696	1,788	1,980	2,045	2,032	2,104	2,078	2,172
Education	3,441	3,670	3,590	3,756	3,752	3,824	3,686	3,684	3,668	3,737
Professional/other	702	694	730	762	820	770	719	779	721	718
Grand total, all fields	11,818	12,178	12,719	13,522	14,183	14,325	14,169	14,573	14,192	14,588
	U.S. citizens or permanent residents, women, American Indian/Alaskan Native									
Science and engineering, total	19	27	18	24	26	35	34	42	56	45
Engineering, total	2	3	0	2	0	2	3	4	2	4
Chemical	1	0	0	0	0	0	1	3	1	1
Civil	0	1	0	0	0	1	1	0	1	1
Electrical	1	1	0	0	0	1	0	0	0	0
Mechanical	0	0	0	0	0	0	1	0	0	1
Other engineering	0	1	0	2	0	0	0	1	0	1
Sciences, total	17	24	18	22	26	33	31	38	54	41
Physical sciences, total	2	2	2	1	2	1	0	1	3	2
Astronomy	0	0	0	0	0	0	0	0	1	1
Chemistry	2	2	1	0	2	1	0	1	2	1
Physics	0	0	1	1	0	0	0	0	0	0
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	1	0	0	0	0	0	1	1	3	1
Mathematics	0	1	0	0	1	0	0	2	0	1
Computer sciences	0	0	1	1	0	2	1	0	1	0
Biological sciences	4	5	2	5	5	9	3	6	10	7
Agricultural sciences	0	0	0	0	0	4	0	2	1	1
Psychology	8	9	9	7	8	9	12	18	23	19
Social sciences	2	7	4	8	10	8	14	8	13	10
Non-S&E, total	39	40	42	48	42	50	54	43	64	48
Health	2	2	6	5	7	3	4	3	6	3
Humanities[1]	7	6	3	8	8	8	11	7	10	9
Education	27	30	30	27	24	38	33	24	40	34
Professional/other	3	2	3	8	3	1	6	9	8	2
Grand total, all fields	58	67	60	72	68	85	88	85	120	93

See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens or permanent residents, women, Asian/Pacific Islander									
Science and engineering, total	374	418	531	820	1,115	983	894	764	724	690
Engineering, total	49	61	61	119	170	134	119	98	86	109
Chemical	9	16	7	25	25	18	12	19	14	22
Civil	4	2	2	4	14	14	14	6	5	10
Electrical	5	21	25	31	46	30	39	31	26	33
Mechanical	3	4	3	24	23	17	16	11	13	16
Other engineering	28	18	24	35	62	55	38	31	28	28
Sciences, total	325	357	470	701	945	849	775	666	638	581
Physical sciences, total	48	80	97	178	211	145	133	102	95	71
Astronomy	0	2	2	1	4	4	1	3	0	4
Chemistry	36	56	72	129	146	108	93	72	82	54
Physics	12	22	23	47	61	33	38	27	13	12
Other physical sciences	0	0	0	1	0	0	1	0	0	1
Earth, atmospheric, & ocean sciences	6	8	8	17	28	12	20	19	11	12
Mathematics	18	19	36	26	50	36	28	27	22	21
Computer sciences	15	12	19	16	30	16	26	23	19	15
Biological sciences	129	133	172	269	411	407	350	291	282	268
Agricultural sciences	8	12	9	20	16	30	18	18	17	9
Psychology	44	39	51	77	79	93	95	85	95	101
Social sciences	57	54	78	98	120	110	105	101	97	84
Non-S&E, total	185	210	199	257	328	314	336	318	307	360
Health	23	30	23	46	41	40	50	50	47	63
Humanities[1]	42	51	66	67	111	105	107	113	112	118
Education	85	96	86	107	120	114	129	108	106	121
Professional/other	35	33	24	37	56	55	50	47	42	58
Grand total, all fields	559	628	730	1,077	1,443	1,297	1,230	1,082	1,031	1,050
	U.S. citizens or permanent residents, women, black									
Science and engineering, total	194	170	208	216	270	253	291	350	367	404
Engineering, total	8	6	11	13	15	19	23	22	24	25
Chemical	1	1	3	4	1	5	6	1	4	6
Civil	2	0	2	2	3	1	0	2	2	1
Electrical	2	2	2	3	4	5	4	4	5	2
Mechanical	1	0	0	1	1	3	1	0	1	5
Other engineering	2	3	4	3	6	5	12	15	12	11
Sciences, total	186	164	197	203	255	234	268	328	343	379
Physical sciences, total	5	6	10	13	18	13	11	31	29	21
Astronomy	0	1	0	0	0	0	1	0	2	1
Chemistry	5	5	9	9	17	10	9	28	23	19
Physics	0	0	0	4	1	3	1	3	4	1
Other physical sciences	0	0	1	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	1	1	0	1	0	2	1	3	5	4
Mathematics	4	0	1	3	1	2	2	7	6	7
Computer sciences	4	1	4	2	4	3	1	8	9	5
Biological sciences	32	24	32	45	43	40	60	69	66	76
Agricultural sciences	1	4	4	6	6	0	6	4	8	8
Psychology	86	78	75	78	112	115	113	113	133	148
Social sciences	53	50	71	55	71	59	74	93	87	110
Non-S&E, total	420	427	493	510	590	562	556	638	667	721
Health	23	24	41	35	42	36	40	51	44	61
Humanities[1]	48	43	42	55	61	66	74	72	97	90
Education	293	327	356	360	423	405	385	459	457	511
Professional/other	56	33	54	60	64	55	57	56	69	59
Grand total, all fields	614	597	701	726	860	815	847	988	1,034	1,125

See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens or permanent residents, women, Hispanic									
Science and engineering, total	186	205	222	230	227	272	264	326	355	334
Engineering, total	10	15	12	6	11	15	23	13	23	12
Chemical	4	4	3	0	2	6	3	0	4	3
Civil	2	1	2	3	1	0	1	3	6	1
Electrical	0	3	3	0	1	4	6	2	4	1
Mechanical	2	2	0	1	0	0	3	1	1	1
Other engineering	2	5	4	2	7	5	10	7	8	6
Sciences, total	176	190	210	224	216	257	241	313	332	322
Physical sciences, total	11	20	20	21	21	12	15	11	22	25
Astronomy	0	1	0	0	2	1	1	0	0	1
Chemistry	9	16	18	16	14	7	12	9	21	21
Physics	2	3	2	5	5	4	2	2	1	3
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	2	6	2	2	6	6	5	6	4	3
Mathematics	4	3	2	3	4	0	6	7	5	7
Computer sciences	1	1	1	0	4	7	2	1	3	3
Biological sciences	39	43	57	62	46	66	62	79	75	91
Agricultural sciences	3	4	5	12	5	3	7	13	7	11
Psychology	70	78	86	90	97	120	107	152	152	140
Social sciences	46	35	37	34	33	43	37	44	64	42
Non-S&E, total	223	222	233	282	290	271	305	316	368	346
Health	9	9	16	18	15	22	24	25	31	24
Humanities[1]	72	63	72	89	82	93	100	94	105	110
Education	124	132	128	159	167	129	162	177	199	182
Professional/other	18	18	17	16	26	27	19	20	33	30
Grand total, all fields	409	427	455	512	517	543	569	642	723	680
	U.S. citizens or permanent residents, women, Puerto Rican									
Science and engineering, total	47	49	42	59	63	68	73	104	95	94
Engineering, total	2	3	2	0	2	5	4	1	8	4
Chemical	1	0	0	0	1	2	0	0	1	2
Civil	0	0	1	0	0	0	0	0	1	0
Electrical	0	1	1	0	0	0	1	0	2	0
Mechanical	0	1	0	0	0	0	0	0	0	0
Other engineering	1	1	0	0	1	3	3	1	4	2
Sciences, total	45	46	40	59	61	63	69	103	87	90
Physical sciences, total	6	6	5	7	9	4	2	5	9	10
Astronomy	0	0	0	0	1	0	0	0	0	0
Chemistry	5	5	5	6	8	3	2	5	9	10
Physics	1	1	0	1	0	1	0	0	0	0
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	0	0	0	0	1	0	2	3	1	0
Mathematics	0	1	0	0	1	0	1	3	0	1
Computer sciences	0	0	1	0	0	1	0	1	1	0
Biological sciences	11	11	11	14	9	18	16	23	23	22
Agricultural sciences	0	0	3	3	0	1	1	1	1	3
Psychology	14	19	11	30	31	33	36	59	40	48
Social sciences	14	9	9	5	10	6	11	8	12	6
Non-S&E, total	60	70	69	75	86	69	86	76	98	89
Health	1	1	3	4	5	5	7	4	6	6
Humanities[1]	19	12	18	22	16	22	23	17	17	25
Education	36	53	45	45	50	34	50	49	66	48
Professional/other	4	4	3	4	15	8	6	6	9	10
Grand total, all fields	107	119	111	134	149	137	159	180	193	183

See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens or permanent residents, women, Mexican American									
Science and engineering, total	42	41	49	58	59	53	69	87	73	85
Engineering, total	2	0	2	2	1	3	7	3	4	3
Chemical	1	0	0	0	1	1	1	0	0	1
Civil	0	0	0	0	0	0	1	1	2	0
Electrical	0	0	0	0	0	1	3	0	1	0
Mechanical	1	0	0	0	0	0	0	0	0	0
Other engineering	0	0	2	2	0	1	2	2	1	2
Sciences, total	40	41	47	56	58	50	62	84	69	82
Physical sciences, total	3	2	3	4	4	3	2	3	5	3
Astronomy	0	0	0	0	1	0	0	0	0	0
Chemistry	2	2	2	3	2	2	2	3	4	3
Physics	1	0	1	1	1	1	0	0	1	0
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	0	2	0	0	1	2	1	1	1	1
Mathematics	2	0	1	1	2	0	1	3	2	4
Computer sciences	0	0	0	0	2	0	0	0	0	1
Biological sciences	7	13	11	13	11	12	22	22	16	19
Agricultural sciences	1	1	1	2	1	0	0	3	0	2
Psychology	15	18	26	23	33	20	29	35	27	39
Social sciences	12	5	5	13	4	13	7	17	18	13
Non-S&E, total	58	53	71	89	70	73	75	116	111	119
Health	3	5	5	3	5	4	7	14	11	9
Humanities[1]	13	10	16	19	13	20	16	25	20	35
Education	39	32	44	64	51	41	48	71	67	69
Professional/other	3	6	6	3	1	8	4	6	13	6
Grand total, all fields	100	94	120	147	129	126	144	203	184	204
	U.S. citizens or permanent residents, women, other Hispanic									
Science and engineering, total	97	115	131	113	105	151	122	135	187	155
Engineering, total	6	12	8	4	8	7	12	9	11	5
Chemical	2	4	3	0	0	3	2	0	3	0
Civil	2	1	1	3	1	0	0	2	3	1
Electrical	0	2	2	0	1	3	2	2	1	1
Mechanical	1	1	0	1	0	0	3	1	1	1
Other engineering	1	4	2	0	6	1	5	4	3	2
Sciences, total	91	103	123	109	97	144	110	126	176	150
Physical sciences, total	2	12	12	10	8	5	11	3	8	12
Astronomy	0	1	0	0	0	1	1	0	0	1
Chemistry	2	9	11	7	4	2	8	1	8	8
Physics	0	2	1	3	4	2	2	2	0	3
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	2	4	2	2	4	4	2	2	2	2
Mathematics	2	2	1	2	1	0	4	1	3	2
Computer sciences	1	1	0	0	2	6	2	0	2	2
Biological sciences	21	19	35	35	26	36	24	34	36	50
Agricultural sciences	2	3	1	7	4	2	6	9	6	6
Psychology	41	41	49	37	33	67	42	58	85	53
Social sciences	20	21	23	16	19	24	19	19	34	23
Non-S&E, total	105	99	93	118	134	129	144	124	159	138
Health	5	3	8	11	5	13	10	7	14	9
Humanities[1]	40	41	38	48	53	51	61	52	68	50
Education	49	47	39	50	66	54	64	57	66	65
Professional/other	11	8	8	9	10	11	9	8	11	14
Grand total, all fields	202	214	224	231	239	280	266	259	346	293

See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens or permanent residents, women, white									
Science and engineering, total	4,739	4,703	5,012	5,158	5,223	5,355	5,267	5,489	5,428	5,506
Engineering, total	235	240	261	305	321	347	332	306	352	329
Chemical	45	59	51	48	60	69	52	52	50	66
Civil	16	19	25	46	34	31	40	45	47	34
Electrical	34	40	49	54	67	66	54	53	45	53
Mechanical	30	19	32	26	25	39	33	37	45	33
Other engineering	110	103	104	131	135	142	153	119	165	143
Sciences, total	4,504	4,463	4,751	4,853	4,902	5,008	4,935	5,183	5,076	5,177
Physical sciences, total	383	399	388	408	448	431	412	448	396	420
Astronomy	6	11	21	19	19	30	22	24	22	27
Chemistry	313	318	299	307	352	308	305	343	293	323
Physics	61	66	66	80	74	91	80	74	76	65
Other physical sciences	3	4	2	2	3	2	5	7	5	5
Earth, atmospheric, & ocean sciences	142	132	110	123	108	109	129	140	125	140
Mathematics	84	93	124	118	126	105	135	150	158	126
Computer sciences	73	69	83	75	104	61	66	84	70	62
Biological sciences	1,170	1,221	1,311	1,349	1,345	1,401	1,399	1,435	1,404	1,512
Agricultural sciences	123	129	115	120	104	137	118	140	124	135
Psychology	1,661	1,558	1,711	1,701	1,744	1,837	1,691	1,763	1,763	1,724
Social sciences	868	862	909	959	923	927	985	1,023	1,036	1,058
Non-S&E, total	5,293	5,643	5,692	5,878	5,964	6,102	5,692	5,899	5,682	5,871
Health	521	558	592	609	602	611	608	695	577	683
Humanities[1]	1,305	1,432	1,503	1,556	1,701	1,752	1,677	1,751	1,717	1,803
Education	2,887	3,054	2,973	3,076	2,995	3,111	2,833	2,825	2,824	2,826
Professional/other	580	599	624	637	666	628	574	628	564	559
Grand total, all fields	10,032	10,346	10,704	11,036	11,187	11,457	10,959	11,388	11,110	11,377
	U.S. citizens									
Science and engineering, total	14,629	14,559	14,932	15,166	15,487	15,629	16,119	16,229	15,800	15,655
Engineering, total	2,086	2,109	2,228	2,215	2,386	2,594	2,736	2,565	2,473	2,206
Chemical	348	318	324	293	291	318	321	327	333	338
Civil	173	164	168	203	206	212	249	246	260	219
Electrical	554	597	630	634	683	707	751	638	637	527
Mechanical	297	352	347	359	383	436	455	434	396	339
Other engineering	714	678	759	726	823	921	960	920	847	783
Sciences, total	12,543	12,450	12,704	12,951	13,101	13,035	13,383	13,664	13,327	13,449
Physical sciences, total	2,120	2,157	2,093	2,198	2,137	2,076	2,131	2,139	2,029	1,885
Astronomy	84	100	106	103	120	137	151	132	110	128
Chemistry	1,351	1,328	1,272	1,291	1,238	1,169	1,234	1,286	1,254	1,116
Physics	671	709	704	789	764	761	731	705	654	622
Other physical sciences	14	20	11	15	15	9	15	16	11	19
Earth, atmospheric, & ocean sciences	592	506	463	507	478	462	537	500	472	475
Mathematics	463	454	496	504	554	490	530	576	537	513
Computer sciences	388	422	425	426	484	422	430	474	412	387
Biological sciences	3,314	3,328	3,449	3,422	3,494	3,547	3,670	3,753	3,649	3,895
Agricultural sciences	564	511	457	519	492	473	468	464	440	446
Psychology	2,953	2,900	3,071	3,052	3,083	3,124	3,046	3,181	3,168	3,146
Social sciences	2,149	2,172	2,250	2,323	2,379	2,441	2,571	2,577	2,620	2,702
Non-S&E, total	10,944	11,451	11,516	11,981	12,253	12,121	12,032	12,208	11,836	12,233
Health	779	809	879	961	938	933	958	1,071	962	1,113
Humanities[1]	2,975	3,211	3,273	3,486	3,747	3,726	3,945	4,020	3,991	4,150
Education	5,614	5,852	5,791	5,864	5,777	5,866	5,580	5,569	5,439	5,532
Professional/other	1,576	1,579	1,573	1,670	1,791	1,596	1,549	1,548	1,444	1,438
Grand total, all fields	25,573	26,010	26,448	27,147	27,740	27,750	28,151	28,437	27,636	27,888

See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens, American Indian/Alaskan Native									
Science and engineering, total	56	69	43	64	68	96	79	96	116	88
Engineering, total	6	11	2	6	9	15	17	13	12	8
Chemical	1	1	1	1	2	1	4	3	2	1
Civil	1	1	0	0	0	2	2	0	2	1
Electrical	2	4	0	1	1	2	5	3	1	0
Mechanical	1	1	0	0	2	4	6	2	2	3
Other engineering	1	4	1	4	4	6	0	5	5	3
Sciences, total	50	58	41	58	59	81	62	83	104	80
Physical sciences, total	10	12	5	6	7	6	10	10	10	9
Astronomy	0	0	1	0	0	0	1	1	2	1
Chemistry	9	6	2	4	5	4	6	7	5	7
Physics	1	6	2	2	2	2	2	2	3	1
Other physical sciences	0	0	0	0	0	0	1	0	0	0
Earth, atmospheric, & ocean sciences	3	1	4	1	0	2	2	3	6	5
Mathematics	0	2	1	2	2	1	1	3	1	2
Computer sciences	1	2	1	1	0	4	1	3	1	1
Biological sciences	10	13	7	16	15	20	7	12	20	17
Agricultural sciences	4	0	1	1	2	6	5	9	2	4
Psychology	13	15	15	12	14	18	18	31	35	22
Social sciences	9	13	7	19	19	24	18	12	29	20
Non-S&E, total	74	80	77	79	80	91	87	93	101	81
Health	5	5	6	6	9	4	6	4	6	4
Humanities[1]	10	18	10	20	18	18	19	21	21	20
Education	55	50	51	37	41	60	51	50	59	51
Professional/other	4	7	10	16	12	9	11	18	15	6
Grand total, all fields	130	149	120	143	148	187	166	189	217	169
	U.S. citizens, Asian/Pacific Islander									
Science and engineering, total	599	651	712	736	894	836	1,010	878	1,003	1,021
Engineering, total	187	214	217	202	255	272	290	245	266	247
Chemical	27	25	26	27	27	27	17	36	32	45
Civil	11	12	10	7	15	17	13	16	20	20
Electrical	67	95	86	97	92	109	128	87	93	79
Mechanical	26	35	34	28	38	40	50	36	43	39
Other engineering	56	47	61	43	83	79	82	70	78	64
Sciences, total	412	437	495	534	639	564	720	633	737	774
Physical sciences, total	86	108	121	122	148	107	153	119	128	103
Astronomy	0	2	3	4	4	5	6	6	2	8
Chemistry	63	65	76	70	91	55	83	71	92	48
Physics	23	41	42	47	53	47	64	42	34	46
Other physical sciences	0	0	0	1	0	0	0	0	0	1
Earth, atmospheric, & ocean sciences	7	14	6	7	8	8	18	7	15	11
Mathematics	23	21	28	18	25	23	33	25	31	44
Computer sciences	32	37	27	33	42	37	43	40	42	42
Biological sciences	160	134	190	194	228	238	258	251	296	330
Agricultural sciences	9	13	9	14	10	13	16	6	20	14
Psychology	46	47	52	81	84	77	102	93	107	124
Social sciences	49	63	62	65	94	61	97	92	98	106
Non-S&E, total	190	197	179	214	247	254	298	292	319	386
Health	23	32	17	36	22	37	42	33	43	55
Humanities[1]	43	46	53	59	86	82	105	103	116	133
Education	85	80	85	81	84	92	101	101	102	127
Professional/other	39	39	24	38	55	43	50	55	58	71
Grand total, all fields	789	848	891	950	1,141	1,090	1,308	1,170	1,322	1,407

See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens, black									
Science and engineering, total	368	323	376	391	471	491	538	576	639	664
Engineering, total	43	32	41	44	54	59	83	76	84	76
Chemical	4	8	4	6	2	10	12	3	9	9
Civil	8	0	3	8	7	6	9	8	5	5
Electrical	16	12	13	14	20	17	27	22	25	19
Mechanical	3	3	2	4	8	9	10	13	10	17
Other engineering	12	9	19	12	17	17	25	30	35	26
Sciences, total	325	291	335	347	417	432	455	500	555	588
Physical sciences, total	25	21	29	33	37	46	46	51	54	52
Astronomy	0	1	2	0	1	0	2	1	2	1
Chemistry	19	13	19	23	27	34	31	40	46	36
Physics	6	6	7	9	9	12	13	10	6	15
Other physical sciences	0	1	1	1	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	2	5	2	3	2	3	4	8	11	7
Mathematics	9	4	5	9	4	8	6	12	10	14
Computer sciences	5	4	5	7	9	12	4	12	16	13
Biological sciences	51	47	64	67	91	82	100	100	109	115
Agricultural sciences	6	6	5	10	9	15	15	8	16	8
Psychology	126	101	117	112	145	146	146	150	169	188
Social sciences	101	103	108	106	120	120	134	159	170	191
Non-S&E, total	642	648	735	710	836	822	811	906	955	992
Health	35	35	52	41	55	42	51	60	50	67
Humanities[1]	84	84	82	94	96	107	126	132	153	148
Education	437	467	516	486	583	581	532	624	623	680
Professional/other	86	62	85	89	102	92	102	90	129	97
Grand total, all fields	1,010	971	1,111	1,101	1,307	1,313	1,349	1,482	1,594	1,656
	U.S. citizens, Hispanic									
Science and engineering, total	411	433	444	463	478	526	571	683	635	630
Engineering, total	49	57	56	49	60	85	81	100	71	68
Chemical	10	10	10	5	11	14	5	10	5	13
Civil	5	6	7	7	7	2	10	15	11	7
Electrical	12	14	16	16	14	27	22	27	28	19
Mechanical	8	10	3	7	5	10	14	19	8	10
Other engineering	14	17	20	14	23	32	30	29	19	19
Sciences, total	362	376	388	414	418	441	490	583	564	562
Physical sciences, total	54	58	65	75	61	50	58	49	55	71
Astronomy	1	4	1	2	3	1	3	2	0	1
Chemistry	39	34	43	49	38	31	36	34	41	48
Physics	14	20	21	24	20	18	19	13	14	21
Other physical sciences	0	0	0	0	0	0	0	0	0	1
Earth, atmospheric, & ocean sciences	12	13	8	7	7	13	16	15	19	18
Mathematics	6	10	9	12	12	8	17	25	12	13
Computer sciences	11	7	5	5	6	12	15	13	12	11
Biological sciences	79	90	93	111	102	106	131	150	153	154
Agricultural sciences	7	9	14	16	10	8	15	25	10	17
Psychology	113	122	120	128	137	167	160	197	198	187
Social sciences	80	67	74	60	83	77	78	109	105	91
Non-S&E, total	321	345	389	421	434	421	486	520	516	527
Health	12	12	19	20	29	31	29	37	39	33
Humanities[1]	105	98	121	129	123	138	172	155	157	176
Education	175	200	213	226	235	203	245	284	271	271
Professional/other	29	35	36	46	47	49	40	44	49	47
Grand total, all fields	732	778	833	884	912	947	1,057	1,203	1,151	1,157

See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens, Puerto Rican									
Science and engineering, total	99	120	112	131	137	140	173	173	183	168
Engineering, total	9	13	10	10	13	22	23	17	23	20
Chemical	2	3	2	2	4	4	1	3	2	5
Civil	1	1	1	1	1	1	5	1	2	2
Electrical	0	3	5	3	3	4	4	3	11	6
Mechanical	2	1	1	1	1	3	6	5	2	2
Other engineering	4	5	1	3	4	10	7	5	6	5
Sciences, total	90	107	102	121	124	118	150	156	160	148
Physical sciences, total	17	20	17	26	21	12	20	11	22	19
Astronomy	0	1	0	0	1	0	0	1	0	0
Chemistry	14	14	14	19	17	9	13	9	18	18
Physics	3	5	3	7	3	3	7	1	4	1
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	0	3	1	0	2	3	6	5	5	5
Mathematics	0	2	1	1	1	3	4	7	2	2
Computer sciences	3	1	1	4	0	5	6	2	6	4
Biological sciences	23	27	27	28	30	30	37	43	47	33
Agricultural sciences	0	3	10	5	3	4	5	3	1	6
Psychology	20	35	24	43	44	48	56	71	56	60
Social sciences	27	16	21	14	23	13	16	14	21	19
Non-S&E, total	92	109	120	126	132	109	141	135	150	139
Health	3	4	3	6	12	7	10	7	11	9
Humanities[1]	30	22	36	38	30	38	49	37	31	44
Education	52	76	70	68	69	51	71	77	89	71
Professional/other	7	7	11	14	21	13	11	14	19	15
Grand total, all fields	191	229	232	257	269	249	314	308	333	307
	U.S. citizens, Mexican American									
Science and engineering, total	117	110	103	134	136	137	153	213	154	202
Engineering, total	14	10	10	14	14	24	18	28	11	25
Chemical	4	1	1	1	3	3	2	1	0	4
Civil	2	2	0	1	3	0	2	5	3	3
Electrical	3	3	2	4	3	9	5	6	3	4
Mechanical	3	2	0	2	1	3	3	3	1	6
Other engineering	2	2	7	6	4	9	6	13	4	8
Sciences, total	103	100	93	120	122	113	135	185	143	177
Physical sciences, total	15	9	9	20	13	19	14	21	15	22
Astronomy	0	0	0	1	1	1	0	1	0	0
Chemistry	12	6	6	16	8	13	9	15	9	17
Physics	3	3	3	3	4	5	5	5	6	5
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	4	6	1	4	3	5	3	5	5	5
Mathematics	3	3	2	4	5	1	3	6	7	8
Computer sciences	0	2	0	0	3	1	2	3	0	3
Biological sciences	23	21	22	29	24	28	40	49	39	44
Agricultural sciences	1	4	2	5	3	1	2	9	3	5
Psychology	34	36	40	38	47	38	49	51	40	59
Social sciences	23	19	17	20	24	20	22	41	34	31
Non-S&E, total	99	97	127	156	137	140	143	194	179	194
Health	3	5	7	3	8	6	7	15	14	11
Humanities[1]	23	22	34	39	33	39	37	53	46	56
Education	64	58	73	100	91	78	89	115	101	114
Professional/other	9	12	13	14	5	17	10	11	18	13
Grand total, all fields	216	207	230	290	273	277	296	407	333	396

See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens, other Hispanic									
Science and engineering, total	195	203	229	198	205	249	245	297	298	260
Engineering, total	26	34	36	25	33	39	40	55	37	23
Chemical	4	6	7	2	4	7	2	6	3	4
Civil	2	3	6	5	3	1	3	9	6	2
Electrical	9	8	9	9	8	14	13	18	14	9
Mechanical	3	7	2	4	3	4	5	11	5	2
Other engineering	8	10	12	5	15	13	17	11	9	6
Sciences, total	169	169	193	173	172	210	205	242	261	237
Physical sciences, total	22	29	39	29	27	19	24	17	18	30
Astronomy	1	3	1	1	1	0	3	0	0	1
Chemistry	13	14	23	14	13	9	14	10	14	13
Physics	8	12	15	14	13	10	7	7	4	15
Other physical sciences	0	0	0	0	0	0	0	0	0	1
Earth, atmospheric, & ocean sciences	8	4	6	3	2	5	7	5	9	8
Mathematics	3	5	6	7	6	4	10	12	3	3
Computer sciences	8	4	4	1	3	6	7	8	6	4
Biological sciences	33	42	44	54	48	48	54	58	67	77
Agricultural sciences	6	2	2	6	4	3	8	13	6	6
Psychology	59	51	56	47	46	81	55	75	102	68
Social sciences	30	32	36	26	36	44	40	54	50	41
Non-S&E, total	130	139	142	139	165	172	202	191	187	194
Health	6	3	9	11	9	18	12	15	14	13
Humanities[1]	52	54	51	52	60	61	86	65	80	76
Education	59	66	70	58	75	74	85	92	81	86
Professional/other	13	16	12	18	21	19	19	19	12	19
Grand total, all fields	325	342	371	337	370	421	447	488	485	454
	U.S. citizens, white									
Science and engineering, total	12,840	12,852	13,211	13,357	13,379	13,460	13,293	13,453	13,135	12,894
Engineering, total	1,707	1,750	1,892	1,886	1,959	2,125	2,150	2,037	1,982	1,754
Chemical	300	267	282	246	243	262	270	263	279	266
Civil	143	142	147	181	175	184	206	196	219	180
Electrical	430	457	507	503	540	541	528	485	471	396
Mechanical	244	300	303	316	320	369	360	348	321	260
Other engineering	590	584	653	640	681	769	786	745	692	652
Sciences, total	11,133	11,102	11,319	11,471	11,420	11,335	11,143	11,416	11,153	11,140
Physical sciences, total	1,897	1,918	1,848	1,944	1,848	1,824	1,793	1,832	1,744	1,607
Astronomy	81	91	97	94	109	127	129	113	103	112
Chemistry	1,201	1,193	1,119	1,139	1,066	1,028	1,040	1,093	1,052	950
Physics	602	616	623	698	660	660	610	611	579	528
Other physical sciences	13	18	9	13	13	9	14	15	10	17
Earth, atmospheric, & ocean sciences	546	469	440	486	452	430	475	451	409	418
Mathematics	403	407	445	455	507	441	449	491	473	433
Computer sciences	330	363	379	375	418	342	341	382	329	309
Biological sciences	2,965	2,998	3,056	3,005	3,023	3,055	3,070	3,139	3,016	3,193
Agricultural sciences	527	475	426	471	456	424	397	403	385	394
Psychology	2,616	2,580	2,751	2,694	2,679	2,701	2,481	2,598	2,634	2,564
Social sciences	1,849	1,892	1,974	2,041	2,037	2,118	2,137	2,120	2,163	2,222
Non-S&E, total	9,586	10,060	10,050	10,459	10,546	10,405	9,880	10,015	9,771	10,017
Health	691	714	782	846	809	806	812	907	811	934
Humanities[1]	2,685	2,927	2,969	3,150	3,374	3,333	3,368	3,461	3,471	3,575
Education	4,820	5,007	4,897	4,989	4,801	4,882	4,407	4,357	4,315	4,312
Professional/other	1,390	1,412	1,402	1,474	1,562	1,384	1,293	1,290	1,174	1,196
Grand total, all fields	22,426	22,912	23,261	23,816	23,925	23,865	23,173	23,468	22,906	22,911

See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens, men									
Science and engineering, total	9,391	9,397	9,429	9,463	9,599	9,574	9,898	9,742	9,391	9,048
Engineering, total	1,807	1,826	1,932	1,872	2,012	2,177	2,321	2,191	2,047	1,790
Chemical	297	250	265	236	221	235	260	263	268	247
Civil	152	144	138	155	170	175	204	196	206	177
Electrical	510	542	573	570	604	624	677	572	575	460
Mechanical	263	329	314	327	355	391	409	393	344	292
Other engineering	585	561	642	584	662	752	771	767	654	614
Sciences, total	7,584	7,571	7,497	7,591	7,587	7,397	7,577	7,551	7,344	7,258
Physical sciences, total	1,708	1,710	1,647	1,745	1,618	1,609	1,659	1,628	1,558	1,402
Astronomy	77	87	86	83	99	106	126	109	87	95
Chemistry	1,015	971	920	946	829	836	883	894	892	741
Physics	605	636	633	703	677	660	639	616	574	553
Other physical sciences	11	16	8	13	13	7	11	9	5	13
Earth, atmospheric, & ocean sciences	444	368	351	382	366	348	391	352	337	320
Mathematics	370	357	372	382	422	385	387	405	372	369
Computer sciences	305	353	343	349	368	345	348	371	322	314
Biological sciences	2,024	1,999	2,000	1,930	2,007	1,962	2,033	2,074	2,005	2,092
Agricultural sciences	436	377	333	387	380	328	334	310	296	300
Psychology	1,106	1,176	1,202	1,143	1,093	1,019	996	1,033	1,033	1,016
Social sciences	1,191	1,231	1,249	1,273	1,333	1,401	1,429	1,378	1,421	1,445
Non-S&E, total	4,997	5,122	5,088	5,272	5,367	5,133	5,179	5,141	4,981	5,062
Health	221	203	226	283	263	248	255	273	280	309
Humanities[1]	1,606	1,728	1,699	1,837	1,937	1,854	2,070	2,072	2,052	2,111
Education	2,255	2,263	2,282	2,200	2,149	2,149	1,984	1,984	1,882	1,876
Professional/other	915	928	881	952	1,018	882	870	812	767	766
Grand total, all fields	14,388	14,519	14,517	14,735	14,966	14,707	15,077	14,883	14,372	14,110
	U.S. citizens, men, American Indian/Alaskan Native									
Science and engineering, total	37	42	25	40	42	62	45	54	60	43
Engineering, total	4	8	2	4	9	13	14	9	10	4
Chemical	0	1	1	1	2	1	3	0	1	0
Civil	1	0	0	0	0	1	1	0	1	0
Electrical	1	3	0	1	1	1	5	3	1	0
Mechanical	1	1	0	0	2	4	5	2	2	2
Other engineering	1	3	1	2	4	6	0	4	5	2
Sciences, total	33	34	23	36	33	49	31	45	50	39
Physical sciences, total	8	10	3	5	5	5	10	9	7	7
Astronomy	0	0	1	0	0	0	1	1	1	0
Chemistry	7	4	1	4	3	3	6	6	3	6
Physics	1	6	1	1	2	2	2	2	3	1
Other physical sciences	0	0	0	0	0	0	1	0	0	0
Earth, atmospheric, & ocean sciences	2	1	4	1	0	2	1	2	3	4
Mathematics	0	1	1	2	1	1	1	1	1	1
Computer sciences	1	2	0	0	0	2	0	3	0	1
Biological sciences	6	8	5	11	10	11	4	6	10	10
Agricultural sciences	4	0	1	1	2	2	5	7	1	3
Psychology	5	6	6	5	6	9	6	13	12	3
Social sciences	7	6	3	11	9	17	4	4	16	10
Non-S&E, total	37	40	35	31	38	41	33	50	37	33
Health	3	3	0	1	2	1	2	1	0	1
Humanities[1]	3	12	7	12	10	10	8	14	11	11
Education	29	20	21	10	17	22	18	26	19	17
Professional/other	2	5	7	8	9	8	5	9	7	4
Grand total, all fields	74	82	60	71	80	103	78	104	97	76

See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens, men, Asian/Pacific Islander									
Science and engineering, total	407	450	479	492	571	512	638	527	636	615
Engineering, total	160	181	193	171	203	221	244	193	224	189
Chemical	20	18	22	20	16	17	14	27	23	30
Civil	10	11	10	7	13	11	10	13	19	14
Electrical	64	83	79	86	80	95	112	69	81	64
Mechanical	23	33	33	23	34	36	42	29	37	30
Other engineering	43	36	49	35	60	62	66	55	64	51
Sciences, total	247	269	286	321	368	291	394	334	412	426
Physical sciences, total	66	72	79	88	99	74	108	85	85	65
Astronomy	0	1	2	4	3	3	6	5	2	6
Chemistry	48	36	39	43	52	32	52	49	55	21
Physics	18	35	38	40	44	39	50	31	28	38
Other physical sciences	0	0	0	1	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	4	11	4	6	7	5	13	4	11	6
Mathematics	18	17	18	14	18	15	27	12	23	34
Computer sciences	25	34	23	29	34	28	32	30	33	34
Biological sciences	91	71	102	114	126	109	132	132	168	178
Agricultural sciences	6	8	5	12	5	6	11	5	10	11
Psychology	13	17	20	20	30	20	22	23	31	40
Social sciences	24	39	35	38	49	34	49	43	51	58
Non-S&E, total	76	81	74	99	96	103	110	121	136	146
Health	10	9	7	15	7	16	15	14	15	18
Humanities[1]	17	22	17	31	28	29	42	39	44	48
Education	26	22	34	28	27	31	25	37	40	42
Professional/other	23	28	16	25	34	27	28	31	37	38
Grand total, all fields	483	531	553	591	667	615	748	648	772	761
	U.S. citizens, men, black									
Science and engineering, total	190	162	180	192	219	253	264	241	296	275
Engineering, total	35	26	30	31	41	40	61	55	61	51
Chemical	3	7	1	2	1	5	6	2	5	3
Civil	6	0	1	6	4	5	9	6	3	4
Electrical	14	10	11	11	16	12	24	18	20	17
Mechanical	2	3	2	3	8	6	9	13	9	12
Other engineering	10	6	15	9	12	12	13	16	24	15
Sciences, total	155	136	150	161	178	213	203	186	235	224
Physical sciences, total	21	16	20	21	20	34	36	25	30	34
Astronomy	0	0	2	0	1	0	1	1	0	0
Chemistry	15	9	11	15	11	24	23	17	27	20
Physics	6	6	7	5	8	10	12	7	3	14
Other physical sciences	0	1	0	1	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	1	4	2	2	2	1	3	5	6	3
Mathematics	5	4	4	6	3	6	4	5	4	7
Computer sciences	1	3	2	5	5	9	3	4	8	8
Biological sciences	25	25	34	24	52	46	43	34	47	43
Agricultural sciences	5	5	3	7	4	15	10	7	10	3
Psychology	42	25	43	40	37	39	39	38	39	42
Social sciences	55	54	42	56	55	63	65	68	91	84
Non-S&E, total	231	234	261	219	271	281	269	285	306	293
Health	13	11	15	11	14	10	12	11	8	11
Humanities[1]	37	42	44	42	42	47	55	63	61	62
Education	149	148	169	131	177	185	157	175	177	177
Professional/other	32	33	33	35	38	39	45	36	60	43
Grand total, all fields	421	396	441	411	490	534	533	526	602	568

See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens, men, Hispanic									
Science and engineering, total	242	263	256	262	279	290	337	381	312	331
Engineering, total	39	46	45	44	50	71	60	87	49	58
Chemical	6	8	7	5	9	9	3	10	2	10
Civil	3	5	5	5	6	2	9	12	5	6
Electrical	12	12	13	16	13	23	16	25	24	19
Mechanical	6	8	3	6	5	10	11	18	7	9
Other engineering	12	13	17	12	17	27	21	22	11	14
Sciences, total	203	217	211	218	229	219	277	294	263	273
Physical sciences, total	44	43	49	58	42	41	46	39	34	49
Astronomy	1	3	1	2	1	1	2	2	0	1
Chemistry	31	23	29	36	24	25	26	25	21	28
Physics	12	17	19	20	17	15	18	12	13	19
Other physical sciences	0	0	0	0	0	0	0	0	0	1
Earth, atmospheric, & ocean sciences	11	9	6	5	4	9	11	10	15	15
Mathematics	3	7	8	9	9	8	12	18	9	7
Computer sciences	10	6	4	5	2	7	13	12	9	9
Biological sciences	44	55	47	61	67	55	75	79	85	73
Agricultural sciences	6	7	9	9	9	6	12	16	6	10
Psychology	47	52	42	42	43	51	59	54	52	54
Social sciences	38	38	46	29	53	42	49	66	53	56
Non-S&E, total	129	147	167	176	179	183	205	230	187	209
Health	4	4	4	3	15	11	7	12	11	10
Humanities[1]	49	51	55	67	60	65	90	83	74	82
Education	63	74	88	76	82	83	85	110	84	97
Professional/other	13	18	20	30	22	24	23	25	18	20
Grand total, all fields	371	410	423	438	458	473	542	611	499	540
	U.S. citizens, men, Puerto Rican									
Science and engineering, total	52	71	70	72	74	72	100	69	88	74
Engineering, total	7	10	8	10	11	17	19	16	15	16
Chemical	1	3	2	2	3	2	1	3	1	3
Civil	1	1	0	1	1	1	5	1	1	2
Electrical	0	2	4	3	3	4	3	3	9	6
Mechanical	2	0	1	1	1	3	6	5	2	2
Other engineering	3	4	1	3	3	7	4	4	2	3
Sciences, total	45	61	62	62	63	55	81	53	73	58
Physical sciences, total	11	14	12	19	12	8	18	6	13	9
Astronomy	0	1	0	0	0	0	0	1	0	0
Chemistry	9	9	9	13	9	6	11	4	9	8
Physics	2	4	3	6	3	2	7	1	4	1
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	0	3	1	0	1	3	4	2	4	5
Mathematics	0	1	1	1	0	3	3	4	2	1
Computer sciences	3	1	0	4	0	4	6	1	5	4
Biological sciences	12	16	16	14	21	12	21	20	24	11
Agricultural sciences	0	3	7	2	3	3	4	2	0	3
Psychology	6	16	13	13	13	15	20	12	16	12
Social sciences	13	7	12	9	13	7	5	6	9	13
Non-S&E, total	32	39	51	51	46	40	55	59	52	50
Health	2	3	0	2	7	2	3	3	5	3
Humanities[1]	11	10	18	16	14	16	26	20	14	19
Education	16	23	25	23	19	17	21	28	23	23
Professional/other	3	3	8	10	6	5	5	8	10	5
Grand total, all fields	84	110	121	123	120	112	155	128	140	124

See explanatory information, if any, and SOURCE at end of table

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens, men, Mexican American									
Science and engineering, total	76	72	61	80	79	85	87	130	82	118
Engineering, total	12	10	9	12	13	21	11	25	7	22
Chemical	3	1	1	1	2	2	1	1	0	3
Civil	2	2	0	1	3	0	1	4	1	3
Electrical	3	3	2	4	3	8	2	6	2	4
Mechanical	2	2	0	2	1	3	3	3	1	6
Other engineering	2	2	6	4	4	8	4	11	3	6
Sciences, total	64	62	52	68	66	64	76	105	75	96
Physical sciences, total	12	7	7	17	9	16	12	18	10	19
Astronomy	0	0	0	1	0	1	0	1	0	0
Chemistry	10	4	5	14	6	11	7	12	5	14
Physics	2	3	2	2	3	4	5	5	5	5
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	4	4	1	4	2	3	2	4	4	4
Mathematics	1	3	2	3	3	1	2	3	5	4
Computer sciences	0	2	0	0	1	1	2	3	0	2
Biological sciences	16	10	12	16	15	16	20	29	23	25
Agricultural sciences	1	3	1	4	2	1	2	6	3	3
Psychology	19	19	16	17	14	18	20	18	14	21
Social sciences	11	14	13	7	20	8	16	24	16	18
Non-S&E, total	44	45	56	70	68	70	68	80	68	76
Health	0	0	2	0	3	2	0	1	3	2
Humanities[1]	11	13	18	22	21	21	21	30	26	21
Education	27	26	29	37	40	37	41	44	34	46
Professional/other	6	6	7	11	4	10	6	5	5	7
Grand total, all fields	120	117	117	150	147	155	155	210	150	194
	U.S. citizens, men, other Hispanic									
Science and engineering, total	114	120	125	110	126	133	150	182	142	139
Engineering, total	20	26	28	22	26	33	30	46	27	20
Chemical	2	4	4	2	4	5	1	6	1	4
Civil	0	2	5	3	2	1	3	7	3	1
Electrical	9	7	7	9	7	11	11	16	13	9
Mechanical	2	6	2	3	3	4	2	10	4	1
Other engineering	7	7	10	5	10	12	13	7	6	5
Sciences, total	94	94	97	88	100	100	120	136	115	119
Physical sciences, total	21	22	30	22	21	17	16	15	11	21
Astronomy	1	2	1	1	1	0	2	0	0	1
Chemistry	12	10	15	9	9	8	8	9	7	6
Physics	8	10	14	12	11	9	6	6	4	13
Other physical sciences	0	0	0	0	0	0	0	0	0	1
Earth, atmospheric, & ocean sciences	7	2	4	1	1	3	5	4	7	6
Mathematics	2	3	5	5	6	4	7	11	2	2
Computer sciences	7	3	4	1	1	2	5	8	4	3
Biological sciences	16	29	19	31	31	27	34	30	38	37
Agricultural sciences	5	1	1	3	4	2	6	8	3	4
Psychology	22	17	13	12	16	18	19	24	22	21
Social sciences	14	17	21	13	20	27	28	36	28	25
Non-S&E, total	53	63	60	55	65	73	82	91	67	83
Health	2	1	2	1	5	7	4	8	3	5
Humanities[1]	27	28	19	29	25	28	43	33	34	42
Education	20	25	34	16	23	29	23	38	27	28
Professional/other	4	9	5	9	12	9	12	12	3	8
Grand total, all fields	167	183	185	165	191	206	232	273	209	222

See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens, men, white									
Science and engineering, total	8,238	8,294	8,370	8,357	8,332	8,295	8,212	8,179	7,889	7,552
Engineering, total	1,486	1,523	1,644	1,595	1,662	1,801	1,838	1,759	1,650	1,440
Chemical	262	211	233	201	187	199	222	213	233	201
Civil	128	125	122	137	145	155	168	155	175	148
Electrical	397	419	462	453	480	482	482	443	432	347
Mechanical	217	281	272	291	296	332	328	316	277	229
Other engineering	482	487	555	513	554	633	638	632	533	515
Sciences, total	6,752	6,771	6,726	6,762	6,670	6,494	6,374	6,420	6,239	6,112
Physical sciences, total	1,525	1,536	1,473	1,557	1,422	1,418	1,402	1,402	1,370	1,211
Astronomy	75	81	78	75	91	98	107	91	83	85
Chemistry	896	886	828	843	733	738	748	765	771	642
Physics	544	555	560	628	587	575	537	538	511	472
Other physical sciences	10	14	7	11	11	7	10	8	5	12
Earth, atmospheric, & ocean sciences	409	339	332	366	346	326	349	317	293	282
Mathematics	324	319	334	344	388	348	325	353	326	314
Computer sciences	260	299	307	305	319	286	278	305	262	252
Biological sciences	1,825	1,802	1,782	1,700	1,724	1,710	1,717	1,757	1,660	1,730
Agricultural sciences	406	349	314	353	357	293	282	268	265	265
Psychology	980	1,059	1,081	1,022	968	894	823	870	892	859
Social sciences	1,023	1,068	1,103	1,115	1,146	1,219	1,198	1,148	1,171	1,199
Non-S&E, total	4,447	4,549	4,498	4,699	4,722	4,456	4,318	4,258	4,229	4,269
Health	186	171	198	250	222	207	214	224	243	262
Humanities[1]	1,466	1,574	1,546	1,662	1,761	1,675	1,778	1,784	1,824	1,846
Education	1,968	1,977	1,958	1,937	1,833	1,805	1,597	1,572	1,534	1,513
Professional/other	827	827	796	850	906	769	729	678	628	648
Grand total, all fields	12,685	12,843	12,868	13,056	13,054	12,751	12,530	12,437	12,118	11,821
	U.S. citizens, women									
Science and engineering, total	5,238	5,162	5,503	5,703	5,888	6,055	6,221	6,487	6,409	6,607
Engineering, total	279	283	296	343	374	417	415	374	426	416
Chemical	51	68	59	57	70	83	61	64	65	91
Civil	21	20	30	48	36	37	45	50	54	42
Electrical	44	55	57	64	79	83	74	66	62	67
Mechanical	34	23	33	32	28	45	46	41	52	47
Other engineering	129	117	117	142	161	169	189	153	193	169
Sciences, total	4,959	4,879	5,207	5,360	5,514	5,638	5,806	6,113	5,983	6,191
Physical sciences, total	412	447	446	453	519	467	472	511	471	483
Astronomy	7	13	20	20	21	31	25	23	23	33
Chemistry	336	357	352	345	409	333	351	392	362	375
Physics	66	73	71	86	87	101	92	89	80	69
Other physical sciences	3	4	3	2	2	2	4	7	6	6
Earth, atmospheric, & ocean sciences	148	138	112	125	112	114	146	148	135	155
Mathematics	93	97	124	122	132	105	143	171	165	144
Computer sciences	83	69	82	77	116	77	82	103	90	73
Biological sciences	1,290	1,329	1,449	1,492	1,487	1,585	1,637	1,679	1,644	1,803
Agricultural sciences	128	134	124	132	112	145	134	154	144	146
Psychology	1,847	1,724	1,869	1,909	1,990	2,105	2,050	2,148	2,135	2,130
Social sciences	958	941	1,001	1,050	1,046	1,040	1,142	1,199	1,199	1,257
Non-S&E, total	5,947	6,329	6,428	6,709	6,886	6,988	6,853	7,067	6,855	7,171
Health	558	606	653	678	675	685	703	798	682	804
Humanities[1]	1,369	1,483	1,574	1,649	1,810	1,872	1,875	1,948	1,939	2,039
Education	3,359	3,589	3,509	3,664	3,628	3,717	3,596	3,585	3,557	3,656
Professional/other	661	651	692	718	773	714	679	736	677	672
Grand total, all fields	11,185	11,491	11,931	12,412	12,774	13,043	13,074	13,554	13,264	13,778

See explanatory information, if any, and SOURCE at end of table.

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Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens, women, American Indian/Alaskan Native									
Science and engineering, total	19	27	18	24	26	34	34	42	56	45
Engineering, total	2	3	0	2	0	2	3	4	2	4
Chemical	1	0	0	0	0	0	1	3	1	1
Civil	0	1	0	0	0	1	1	0	1	1
Electrical	1	1	0	0	0	1	0	0	0	0
Mechanical	0	0	0	0	0	0	1	0	0	1
Other engineering	0	1	0	2	0	0	0	1	0	1
Sciences, total	17	24	18	22	26	32	31	38	54	41
Physical sciences, total	2	2	2	1	2	1	0	1	3	2
Astronomy	0	0	0	0	0	0	0	0	1	1
Chemistry	2	2	1	0	2	1	0	1	2	1
Physics	0	0	1	1	0	0	0	0	0	0
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	1	0	0	0	0	0	1	1	3	1
Mathematics	0	1	0	0	1	0	0	2	0	1
Computer sciences	0	0	1	1	0	2	1	0	1	0
Biological sciences	4	5	2	5	5	9	3	6	10	7
Agricultural sciences	0	0	0	0	0	4	0	2	1	1
Psychology	8	9	9	7	8	9	12	18	23	19
Social sciences	2	7	4	8	10	7	14	8	13	10
Non-S&E, total	37	40	42	48	42	50	54	43	64	48
Health	2	2	6	5	7	3	4	3	6	3
Humanities[1]	7	6	3	8	8	8	11	7	10	9
Education	26	30	30	27	24	38	33	24	40	34
Professional/other	2	2	3	8	3	1	6	9	8	2
Grand total, all fields	56	67	60	72	68	84	88	85	120	93
	U.S. citizens, women, Asian/Pacific Islander									
Science and engineering, total	192	201	233	244	323	324	372	351	367	406
Engineering, total	27	33	24	31	52	51	46	52	42	58
Chemical	7	7	4	7	11	10	3	9	9	15
Civil	1	1	0	0	2	6	3	3	1	6
Electrical	3	12	7	11	12	14	16	18	12	15
Mechanical	3	2	1	5	4	4	8	7	6	9
Other engineering	13	11	12	8	23	17	16	15	14	13
Sciences, total	165	168	209	213	271	273	326	299	325	348
Physical sciences, total	20	36	42	34	49	33	45	34	43	38
Astronomy	0	1	1	0	1	2	0	1	0	2
Chemistry	15	29	37	27	39	23	31	22	37	27
Physics	5	6	4	7	9	8	14	11	6	8
Other physical sciences	0	0	0	0	0	0	0	0	0	1
Earth, atmospheric, & ocean sciences	3	3	2	1	1	3	5	3	4	5
Mathematics	5	4	10	4	7	8	6	13	8	10
Computer sciences	7	3	4	4	8	9	11	10	9	8
Biological sciences	69	63	88	80	102	129	126	119	128	152
Agricultural sciences	3	5	4	2	5	7	5	1	10	3
Psychology	33	30	32	61	54	57	80	70	76	84
Social sciences	25	24	27	27	45	27	48	49	47	48
Non-S&E, total	114	116	105	115	151	151	188	171	183	240
Health	13	23	10	21	15	21	27	19	28	37
Humanities[1]	26	24	36	28	58	53	63	64	72	85
Education	59	58	51	53	57	61	76	64	62	85
Professional/other	16	11	8	13	21	16	22	24	21	33
Grand total, all fields	306	317	338	359	474	475	560	522	550	646

See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens, women, black									
Science and engineering, total	178	161	196	199	252	238	274	335	343	389
Engineering, total	8	6	11	13	13	19	22	21	23	25
Chemical	1	1	3	4	1	5	6	1	4	6
Civil	2	0	2	2	3	1	0	2	2	1
Electrical	2	2	2	3	4	5	3	4	5	2
Mechanical	1	0	0	1	0	3	1	0	1	5
Other engineering	2	3	4	3	5	5	12	14	11	11
Sciences, total	170	155	185	186	239	219	252	314	320	364
Physical sciences, total	4	5	9	12	17	12	10	26	24	18
Astronomy	0	1	0	0	0	0	1	0	2	1
Chemistry	4	4	8	8	16	10	8	23	19	16
Physics	0	0	0	4	1	2	1	3	3	1
Other physical sciences	0	0	1	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	1	1	0	1	0	2	1	3	5	4
Mathematics	4	0	1	3	1	2	2	7	6	7
Computer sciences	4	1	3	2	4	3	1	8	8	5
Biological sciences	26	22	30	43	39	36	57	66	62	72
Agricultural sciences	1	1	2	3	5	0	5	1	6	5
Psychology	84	76	74	72	108	107	107	112	130	146
Social sciences	46	49	66	50	65	57	69	91	79	107
Non-S&E, total	411	414	474	491	565	541	542	621	649	699
Health	22	24	37	30	41	32	39	49	42	56
Humanities[1]	47	42	38	52	54	60	71	69	92	86
Education	288	319	347	355	406	396	375	449	446	503
Professional/other	54	29	52	54	64	53	57	54	69	54
Grand total, all fields	589	575	670	690	817	779	816	956	992	1,088
	U.S. citizens, women, Hispanic									
Science and engineering, total	169	170	188	201	199	236	234	302	323	299
Engineering, total	10	11	11	5	10	14	21	13	22	10
Chemical	4	2	3	0	2	5	2	0	3	3
Civil	2	1	2	2	1	0	1	3	6	1
Electrical	0	2	3	0	1	4	6	2	4	0
Mechanical	2	2	0	1	0	0	3	1	1	1
Other engineering	2	4	3	2	6	5	9	7	8	5
Sciences, total	159	159	177	196	189	222	213	289	301	289
Physical sciences, total	10	15	16	17	19	9	12	10	21	22
Astronomy	0	1	0	0	2	0	1	0	0	0
Chemistry	8	11	14	13	14	6	10	9	20	20
Physics	2	3	2	4	3	3	1	1	1	2
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	1	4	2	2	3	4	5	5	4	3
Mathematics	3	3	1	3	3	0	5	7	3	6
Computer sciences	1	1	1	0	4	5	2	1	3	2
Biological sciences	35	35	46	50	35	51	56	71	68	81
Agricultural sciences	1	2	5	7	1	2	3	9	4	7
Psychology	66	70	78	86	94	116	101	143	146	133
Social sciences	42	29	28	31	30	35	29	43	52	35
Non-S&E, total	192	198	222	245	255	238	281	290	329	318
Health	8	8	15	17	14	20	22	25	28	23
Humanities[1]	56	47	66	62	63	73	82	72	83	94
Education	112	126	125	150	153	120	160	174	187	174
Professional/other	16	17	16	16	25	25	17	19	31	27
Grand total, all fields	361	368	410	446	454	474	515	592	652	617

See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens, women, Puerto Rican									
Science and engineering, total	47	49	42	59	63	68	73	104	95	94
Engineering, total	2	3	2	0	2	5	4	1	8	4
Chemical	1	0	0	0	1	2	0	0	1	2
Civil	0	0	1	0	0	0	0	0	1	0
Electrical	0	1	1	0	0	0	1	0	2	0
Mechanical	0	1	0	0	0	0	0	0	0	0
Other engineering	1	1	0	0	1	3	3	1	4	2
Sciences, total	45	46	40	59	61	63	69	103	87	90
Physical sciences, total	6	6	5	7	9	4	2	5	9	10
Astronomy	0	0	0	0	1	0	0	0	0	0
Chemistry	5	5	5	6	8	3	2	5	9	10
Physics	1	1	0	1	0	1	0	0	0	0
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	0	0	0	0	1	0	2	3	1	0
Mathematics	0	1	0	0	1	0	1	3	0	1
Computer sciences	0	0	1	0	0	1	0	1	1	0
Biological sciences	11	11	11	14	9	18	16	23	23	22
Agricultural sciences	0	0	3	3	0	1	1	1	1	3
Psychology	14	19	11	30	31	33	36	59	40	48
Social sciences	14	9	9	5	10	6	11	8	12	6
Non-S&E, total	60	70	69	75	86	69	86	76	98	89
Health	1	1	3	4	5	5	7	4	6	6
Humanities[1]	19	12	18	22	16	22	23	17	17	25
Education	36	53	45	45	50	34	50	49	66	48
Professional/other	4	4	3	4	15	8	6	6	9	10
Grand total, all fields	107	119	111	134	149	137	159	180	193	183
	U.S. citizens, women, Mexican American									
Science and engineering, total	41	38	42	54	57	52	66	83	72	84
Engineering, total	2	0	1	2	1	3	7	3	4	3
Chemical	1	0	0	0	1	1	1	0	0	1
Civil	0	0	0	0	0	0	1	1	2	0
Electrical	0	0	0	0	0	1	3	0	1	0
Mechanical	1	0	0	0	0	0	0	0	0	0
Other engineering	0	0	1	2	0	1	2	2	1	2
Sciences, total	39	38	41	52	56	49	59	80	68	81
Physical sciences, total	3	2	2	3	4	3	2	3	5	3
Astronomy	0	0	0	0	1	0	0	0	0	0
Chemistry	2	2	1	2	2	2	2	3	4	3
Physics	1	0	1	1	1	1	0	0	1	0
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	0	2	0	0	1	2	1	1	1	1
Mathematics	2	0	0	1	2	0	1	3	2	4
Computer sciences	0	0	0	0	2	0	0	0	0	1
Biological sciences	7	11	10	13	9	12	20	20	16	19
Agricultural sciences	0	1	1	1	1	0	0	3	0	2
Psychology	15	17	24	21	33	20	29	33	26	38
Social sciences	12	5	4	13	4	12	6	17	18	13
Non-S&E, total	55	52	71	86	69	70	75	114	111	118
Health	3	5	5	3	5	4	7	14	11	9
Humanities[1]	12	9	16	17	12	18	16	23	20	35
Education	37	32	44	63	51	41	48	71	67	68
Professional/other	3	6	6	3	1	7	4	6	13	6
Grand total, all fields	96	90	113	140	126	122	141	197	183	202

See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens, women, other Hispanic									
Science and engineering, total	81	83	104	88	79	116	95	115	156	121
Engineering, total	6	8	8	3	7	6	10	9	10	3
Chemical	2	2	3	0	0	2	1	0	2	0
Civil	2	1	1	2	1	0	0	2	3	1
Electrical	0	1	2	0	1	3	2	2	1	0
Mechanical	1	1	0	1	0	0	3	1	1	1
Other engineering	1	3	2	0	5	1	4	4	3	1
Sciences, total	75	75	96	85	72	110	85	106	146	118
Physical sciences, total	1	7	9	7	6	2	8	2	7	9
Astronomy	0	1	0	0	0	0	1	0	0	0
Chemistry	1	4	8	5	4	1	6	1	7	7
Physics	0	2	1	2	2	1	1	1	0	2
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, & ocean sciences	1	2	2	2	1	2	2	1	2	2
Mathematics	1	2	1	2	0	0	3	1	1	1
Computer sciences	1	1	0	0	2	4	2	0	2	1
Biological sciences	17	13	25	23	17	21	20	28	29	40
Agricultural sciences	1	1	1	3	0	1	2	5	3	2
Psychology	37	34	43	35	30	63	36	51	80	47
Social sciences	16	15	15	13	16	17	12	18	22	16
Non-S&E, total	77	76	82	84	100	99	120	100	120	111
Health	4	2	7	10	4	11	8	7	11	8
Humanities[1]	25	26	32	23	35	33	43	32	46	34
Education	39	41	36	42	52	45	62	54	54	58
Professional/other	9	7	7	9	9	10	7	7	9	11
Grand total, all fields	158	159	186	172	179	215	215	215	276	232
	U.S. citizens, women, white									
Science and engineering, total	4,602	4,558	4,841	5,000	5,047	5,165	5,081	5,274	5,246	5,342
Engineering, total	221	227	248	291	297	324	312	278	332	314
Chemical	38	56	49	45	56	63	48	50	46	65
Civil	15	17	25	44	30	29	38	41	44	32
Electrical	33	38	45	50	60	59	46	42	39	49
Mechanical	27	19	31	25	24	37	32	32	44	31
Other engineering	108	97	98	127	127	136	148	113	159	137
Sciences, total	4,381	4,331	4,593	4,709	4,750	4,841	4,769	4,996	4,914	5,028
Physical sciences, total	372	382	375	387	426	406	391	430	374	396
Astronomy	6	10	19	19	18	29	22	22	20	27
Chemistry	305	307	291	296	333	290	292	328	281	308
Physics	58	61	63	70	73	85	73	73	68	56
Other physical sciences	3	4	2	2	2	2	4	7	5	5
Earth, atmospheric, & ocean sciences	137	130	108	120	106	104	126	134	116	136
Mathematics	79	88	111	111	119	93	124	138	147	119
Computer sciences	70	64	72	70	99	56	63	77	67	57
Biological sciences	1,140	1,196	1,274	1,305	1,299	1,345	1,353	1,382	1,356	1,463
Agricultural sciences	121	126	112	118	99	131	115	135	120	129
Psychology	1,636	1,521	1,670	1,672	1,711	1,807	1,658	1,728	1,742	1,705
Social sciences	826	824	871	926	891	899	939	972	992	1,023
Non-S&E, total	5,139	5,511	5,552	5,760	5,824	5,949	5,562	5,757	5,542	5,748
Health	505	543	584	596	587	599	598	683	568	672
Humanities[1]	1,219	1,353	1,423	1,488	1,613	1,658	1,590	1,677	1,647	1,729
Education	2,852	3,030	2,939	3,052	2,968	3,077	2,810	2,785	2,781	2,799
Professional/other	563	585	606	624	656	615	564	612	546	548
Grand total, all fields	9,741	10,069	10,393	10,760	10,871	11,114	10,643	11,031	10,788	11,090

See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Non-U.S. citizens with permanent visas									
Science and engineering, total	1,285	1,383	1,641	3,021	3,509	3,009	2,280	2,016	1,652	1,409
Engineering, total	388	411	469	838	956	793	593	479	403	350
Chemical	51	60	53	87	90	73	88	46	38	42
Civil	40	51	59	89	103	93	78	51	51	41
Electrical	132	122	165	265	288	221	187	166	127	116
Mechanical	62	74	87	179	180	152	82	82	65	56
Other engineering	103	104	105	218	295	254	158	134	122	95
Sciences, total	897	972	1,172	2,183	2,553	2,216	1,687	1,537	1,249	1,059
Physical sciences, total	180	200	237	591	704	493	366	313	242	199
Astronomy	2	6	5	9	21	12	7	15	7	12
Chemistry	110	113	128	325	386	293	205	179	150	120
Physics	68	81	102	255	295	187	152	117	84	66
Other physical sciences	0	0	2	2	2	1	2	2	1	1
Earth, atmospheric, & ocean sciences	26	35	41	106	116	96	70	62	51	34
Mathematics	55	53	94	153	217	158	99	93	66	55
Computer sciences	63	67	84	117	132	92	91	84	71	71
Biological sciences	211	240	303	666	835	818	584	551	464	365
Agricultural sciences	56	62	49	97	106	103	83	79	51	55
Psychology	65	86	90	84	101	104	89	93	70	75
Social sciences	241	229	274	369	342	352	305	262	234	205
Non-S&E, total	572	597	618	726	809	758	650	681	654	540
Health	60	46	60	89	106	83	69	82	77	75
Humanities[1]	219	229	238	280	308	319	289	304	283	233
Education	174	165	177	199	218	196	165	171	178	124
Professional/other	119	157	143	158	177	160	127	124	116	108
Grand total, all fields	1,857	1,980	2,259	3,747	4,318	3,767	2,930	2,697	2,306	1,949
	Non-U.S. citizens with permanent visas, men									
Science and engineering, total	926	968	1,120	2,230	2,485	2,101	1,508	1,340	1,051	902
Engineering, total	351	366	417	733	810	685	495	402	337	282
Chemical	42	46	48	66	72	58	72	34	28	34
Civil	36	48	57	82	87	83	65	43	44	35
Electrical	128	110	142	241	247	198	155	141	107	93
Mechanical	59	72	84	157	159	137	73	73	57	47
Other engineering	86	90	86	187	245	209	130	111	101	73
Sciences, total	575	602	703	1,497	1,675	1,416	1,013	938	714	620
Physical sciences, total	138	133	162	419	515	350	251	221	160	135
Astronomy	2	4	2	8	17	8	6	11	5	9
Chemistry	78	69	79	206	258	187	125	109	86	73
Physics	58	60	79	204	239	154	120	99	68	52
Other physical sciences	0	0	2	1	1	1	0	2	1	1
Earth, atmospheric, & ocean sciences	17	26	33	87	84	80	52	39	35	22
Mathematics	36	33	54	124	166	118	65	66	39	36
Computer sciences	52	53	57	100	105	78	73	64	57	58
Biological sciences	111	131	168	415	463	462	302	312	249	184
Agricultural sciences	47	46	39	69	83	73	62	50	35	36
Psychology	22	30	21	26	35	26	27	32	21	30
Social sciences	152	150	169	257	224	229	181	154	118	119
Non-S&E, total	298	325	351	407	424	384	327	338	327	237
Health	31	23	34	45	62	45	33	37	44	32
Humanities[1]	97	104	116	141	138	146	132	148	144	100
Education	92	84	96	107	94	89	75	72	67	43
Professional/other	78	114	105	114	130	104	87	81	72	62
Grand total, all fields	1,224	1,293	1,471	2,637	2,909	2,485	1,835	1,678	1,378	1,139

See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Non-U.S. citizens with permanent visas, women									
Science and engineering, total	359	415	521	791	1,024	908	772	676	601	507
Engineering, total	37	45	52	105	146	108	98	77	66	68
Chemical	9	14	5	21	18	15	16	12	10	8
Civil	4	3	2	7	16	10	13	8	7	6
Electrical	4	12	23	24	41	23	32	25	20	23
Mechanical	3	2	3	22	21	15	9	9	8	9
Other engineering	17	14	19	31	50	45	28	23	21	22
Sciences, total	322	370	469	686	878	800	674	599	535	439
Physical sciences, total	42	67	75	172	189	143	115	92	82	64
Astronomy	0	2	3	1	4	4	1	4	2	3
Chemistry	32	44	49	119	128	106	80	70	64	47
Physics	10	21	23	51	56	33	32	18	16	14
Other physical sciences	0	0	0	1	1	0	2	0	0	0
Earth, atmospheric, & ocean sciences	9	9	8	19	32	16	18	23	16	12
Mathematics	19	20	40	29	51	40	34	27	27	19
Computer sciences	11	14	27	17	27	14	18	20	14	13
Biological sciences	100	109	135	251	372	356	282	239	215	181
Agricultural sciences	9	16	10	28	23	30	21	29	16	19
Psychology	43	56	69	58	66	78	62	61	49	45
Social sciences	89	79	105	112	118	123	124	108	116	86
Non-S&E, total	274	272	267	319	385	374	323	343	327	303
Health	29	23	26	44	44	38	36	45	33	43
Humanities[1]	122	125	122	139	170	173	157	156	139	133
Education	82	81	81	92	124	107	90	99	111	81
Professional/other	41	43	38	44	47	56	40	43	44	46
Grand total, all fields	633	687	788	1,110	1,409	1,282	1,095	1,019	928	810
	Non-U.S. citizens with temporary visas									
Science and engineering, total	7,641	8,092	8,113	7,521	6,993	7,806	7,499	7,774	7,236	7,648
Engineering, total	2,633	2,743	2,784	2,653	2,524	2,720	2,551	2,582	2,190	2,444
Chemical	281	339	336	336	318	399	343	373	281	308
Civil	353	357	380	385	337	369	310	316	252	280
Electrical	690	725	703	735	712	749	711	709	636	777
Mechanical	493	538	554	459	437	431	448	454	354	431
Other engineering	816	784	811	738	720	772	739	730	667	648
Sciences, total	5,008	5,349	5,329	4,868	4,469	5,086	4,948	5,192	5,046	5,204
Physical sciences, total	1,257	1,346	1,263	1,107	930	1,140	1,083	1,202	1,127	1,156
Astronomy	37	28	34	32	28	42	37	52	37	43
Chemistry	689	729	675	597	493	613	598	658	623	648
Physics	525	581	550	471	399	482	446	487	462	457
Other physical sciences	6	8	4	7	10	3	2	5	5	8
Earth, atmospheric, & ocean sciences	185	236	235	197	173	205	229	216	242	202
Mathematics	506	511	517	448	382	442	441	447	444	442
Computer sciences	340	365	348	343	365	376	330	329	331	361
Biological sciences	1,059	1,159	1,246	1,058	968	1,240	1,320	1,333	1,286	1,390
Agricultural sciences	435	472	447	453	429	441	391	462	459	416
Psychology	133	156	148	151	164	181	137	168	153	164
Social sciences	1,093	1,104	1,125	1,111	1,058	1,061	1,017	1,035	1,004	1,073
Non-S&E, total	1,670	1,861	1,819	1,885	1,817	1,808	1,680	1,719	1,821	2,000
Health	171	226	214	230	246	267	273	287	286	306
Humanities[1]	444	495	466	529	548	522	529	533	536	626
Education	503	553	546	537	502	477	408	488	519	541
Professional/other	552	587	593	589	521	542	470	411	480	527
Grand total, all fields	9,311	9,953	9,932	9,406	8,810	9,614	9,179	9,493	9,057	9,648

See explanatory information, if any, and SOURCE at end of table.

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Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Non-U.S. citizens with temporary visas, men									
Science and engineering, total	6,412	6,741	6,658	6,200	5,748	6,310	5,978	6,020	5,589	5,784
Engineering, total	2,484	2,574	2,623	2,475	2,365	2,492	2,340	2,308	1,931	2,142
Chemical	259	308	309	301	297	354	300	313	237	260
Civil	337	330	358	360	314	338	289	277	226	243
Electrical	659	679	660	679	668	697	675	657	574	689
Mechanical	473	518	535	445	424	415	419	425	323	396
Other engineering	756	739	761	690	662	688	657	636	571	554
Sciences, total	3,928	4,167	4,035	3,725	3,383	3,818	3,638	3,712	3,658	3,642
Physical sciences, total	1,041	1,098	1,015	908	770	931	860	923	880	905
Astronomy	30	24	32	28	24	36	27	34	30	38
Chemistry	547	556	503	440	378	465	445	455	443	475
Physics	460	510	477	433	360	428	388	431	402	386
Other physical sciences	4	8	3	7	8	2	0	3	5	6
Earth, atmospheric, & ocean sciences	165	198	202	158	151	169	193	175	195	144
Mathematics	420	427	422	364	304	359	366	362	367	359
Computer sciences	317	329	322	302	322	335	292	306	283	312
Biological sciences	694	787	809	703	634	799	816	795	818	836
Agricultural sciences	366	391	357	366	340	340	298	355	343	312
Psychology	77	81	64	71	79	87	58	67	70	68
Social sciences	848	856	844	853	783	798	755	729	702	706
Non-S&E, total	1,105	1,222	1,205	1,129	1,110	1,090	998	1,005	1,045	1,056
Health	101	159	138	115	142	151	135	157	139	143
Humanities[1]	255	280	275	294	309	280	295	274	297	294
Education	288	299	306	269	244	242	203	249	245	245
Professional/other	461	484	486	451	415	417	365	325	364	374
Grand total, all fields	7,517	7,963	7,863	7,329	6,858	7,400	6,976	7,025	6,634	6,840
	Non-U.S. citizens with temporary visas, women									
Science and engineering, total	1,229	1,351	1,455	1,321	1,245	1,496	1,521	1,754	1,647	1,864
Engineering, total	149	169	161	178	159	228	211	274	259	302
Chemical	22	31	27	35	21	45	43	60	44	48
Civil	16	27	22	25	23	31	21	39	26	37
Electrical	31	46	43	56	44	52	36	52	62	88
Mechanical	20	20	19	14	13	16	29	29	31	35
Other engineering	60	45	50	48	58	84	82	94	96	94
Sciences, total	1,080	1,182	1,294	1,143	1,086	1,268	1,310	1,480	1,388	1,562
Physical sciences, total	216	248	248	199	160	209	223	279	247	251
Astronomy	7	4	2	4	4	6	10	18	7	5
Chemistry	142	173	172	157	115	148	153	203	180	173
Physics	65	71	73	38	39	54	58	56	60	71
Other physical sciences	2	0	1	0	2	1	2	2	0	2
Earth, atmospheric, & ocean sciences	20	38	33	39	22	36	36	41	47	58
Mathematics	86	84	95	84	78	83	75	85	77	83
Computer sciences	23	36	26	41	43	41	38	23	48	49
Biological sciences	365	372	437	355	334	441	504	538	468	554
Agricultural sciences	69	81	90	87	89	101	93	107	116	104
Psychology	56	75	84	80	85	94	79	101	83	96
Social sciences	245	248	281	258	275	263	262	306	302	367
Non-S&E, total	565	639	614	756	707	718	682	714	776	944
Health	70	67	76	115	104	116	138	130	147	163
Humanities[1]	189	215	191	235	239	242	234	259	239	332
Education	215	254	240	268	258	235	205	239	274	296
Professional/other	91	103	107	138	106	125	105	86	116	153
Grand total, all fields	1,794	1,990	2,069	2,077	1,952	2,214	2,203	2,468	2,423	2,808

[1] Categories differ from those published by other Federal sponsors and the National Research Council in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Total									
Science and engineering, total	24,023	24,675	25,443	26,205	26,534	27,228	27,240	27,277	25,913	25,979
Engineering, total	5,214	5,438	5,698	5,822	6,008	6,305	6,114	5,927	5,328	5,330
Aeronautical/astronautical	207	234	228	230	252	287	273	243	206	215
Chemical	691	725	737	725	708	798	767	775	673	726
Civil	575	594	624	684	656	697	656	650	583	558
Electrical	1,405	1,483	1,543	1,673	1,731	1,740	1,721	1,596	1,477	1,544
Industrial	165	196	236	228	284	258	246	229	212	176
Materials/metallurgical	489	485	535	539	588	572	581	565	469	451
Mechanical	875	987	1,030	1,015	1,025	1,052	1,021	1,023	854	864
Other engineering	807	734	765	728	764	901	849	846	854	796
Sciences, total	18,809	19,237	19,745	20,383	20,526	20,923	21,126	21,350	20,585	20,649
Physical sciences, total	3,626	3,781	3,699	3,977	3,841	3,837	3,768	3,823	3,578	3,411
Astronomy	125	134	145	144	173	192	198	207	159	187
Chemistry	2,194	2,214	2,137	2,257	2,162	2,148	2,147	2,215	2,132	1,990
Physics	1,286	1,403	1,399	1,548	1,479	1,484	1,401	1,377	1,270	1,205
Other physical sciences	21	30	18	28	27	13	22	24	17	29
Earth, atmospheric, and ocean sciences	815	794	771	824	780	794	878	814	805	757
Mathematics	1,039	1,058	1,146	1,118	1,190	1,122	1,123	1,177	1,083	1,048
Computer sciences	800	869	880	903	997	921	910	925	853	861
Biological sciences	4,650	4,799	5,092	5,203	5,375	5,723	5,786	5,843	5,581	5,855
Agricultural sciences	1,073	1,063	968	1,078	1,036	1,037	982	1,037	965	943
Psychology	3,250	3,263	3,420	3,379	3,429	3,491	3,568	3,676	3,659	3,623
Social sciences	3,556	3,610	3,769	3,901	3,878	3,998	4,111	4,055	4,061	4,151
Non-S&E, total	13,511	14,215	14,357	14,829	15,208	15,185	15,305	15,357	15,147	15,389
Health	1,041	1,112	1,197	1,296	1,330	1,324	1,422	1,501	1,404	1,589
Humanities[1]	3,720	4,036	4,091	4,374	4,690	4,713	5,035	5,112	5,028	5,214
Education	6,454	6,677	6,689	6,708	6,649	6,772	6,572	6,568	6,545	6,420
Professional/other	2,296	2,390	2,380	2,451	2,539	2,376	2,276	2,176	2,170	2,166
Grand total, all fields	37,534	38,890	39,800	41,034	41,742	42,413	42,545	42,634	41,060	41,368

See explanatory information, if any, and SOURCE at end of table.

Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Citizenship known									
Science and engineering, total	23,555	24,034	24,686	25,708	25,989	26,444	25,898	26,019	24,688	24,712
Engineering, total	5,107	5,263	5,481	5,706	5,866	6,107	5,880	5,626	5,066	5,000
Aeronautical/astronautical	205	215	219	226	247	277	265	223	194	202
Chemical	680	717	713	716	699	790	752	746	652	688
Civil	566	572	607	677	646	674	637	613	563	540
Electrical	1,376	1,444	1,498	1,634	1,683	1,677	1,649	1,513	1,400	1,420
Industrial	162	192	230	228	280	252	237	221	207	170
Materials/metallurgical	481	469	516	530	575	556	558	541	452	424
Mechanical	852	964	988	997	1,000	1,019	985	970	815	826
Other engineering	785	690	710	698	736	862	797	799	783	730
Sciences, total	18,448	18,771	19,205	20,002	20,123	20,337	20,018	20,393	19,622	19,712
Physical sciences, total	3,557	3,703	3,593	3,896	3,771	3,709	3,580	3,654	3,398	3,240
Astronomy	123	134	145	144	169	191	195	199	154	183
Chemistry	2,150	2,170	2,075	2,213	2,117	2,075	2,037	2,123	2,027	1,884
Physics	1,264	1,371	1,356	1,515	1,458	1,430	1,329	1,309	1,200	1,145
Other physical sciences	20	28	17	24	27	13	19	23	17	28
Earth, atmospheric, and ocean sciences	803	777	739	810	767	763	836	778	765	711
Mathematics	1,024	1,018	1,107	1,105	1,153	1,090	1,070	1,116	1,047	1,010
Computer sciences	791	854	857	886	981	890	851	887	814	819
Biological sciences	4,584	4,727	4,998	5,146	5,297	5,605	5,574	5,637	5,399	5,650
Agricultural sciences	1,055	1,045	953	1,069	1,027	1,017	942	1,005	950	917
Psychology	3,151	3,142	3,309	3,287	3,348	3,409	3,272	3,442	3,391	3,385
Social sciences	3,483	3,505	3,649	3,803	3,779	3,854	3,893	3,874	3,858	3,980
Non-S&E, total	13,186	13,909	13,953	14,592	14,879	14,687	14,362	14,608	14,311	14,773
Health	1,010	1,081	1,153	1,280	1,290	1,283	1,300	1,440	1,325	1,494
Humanities[1]	3,638	3,935	3,977	4,295	4,603	4,567	4,763	4,857	4,810	5,009
Education	6,291	6,570	6,514	6,600	6,497	6,539	6,153	6,228	6,136	6,197
Professional/other	2,247	2,323	2,309	2,417	2,489	2,298	2,146	2,083	2,040	2,073
Grand total, all fields	36,741	37,943	38,639	40,300	40,868	41,131	40,260	40,627	38,999	39,485

See explanatory information, if any, and SOURCE at end of table.

Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens									
Science and engineering, total	14,629	14,559	14,932	15,166	15,487	15,629	16,119	16,229	15,800	15,655
Engineering, total	2,086	2,109	2,228	2,215	2,386	2,594	2,736	2,565	2,473	2,206
Aeronautical/astronautical	103	95	114	110	140	166	155	139	102	117
Chemical	348	318	324	293	291	318	321	327	333	338
Civil	173	164	168	203	206	212	249	246	260	219
Electrical	554	597	630	634	683	707	751	638	637	527
Industrial	50	54	89	89	108	107	102	84	86	67
Materials/metallurgical	211	202	228	218	238	244	271	265	223	221
Mechanical	297	352	347	359	383	436	455	434	396	339
Other engineering	350	327	328	309	337	404	432	432	436	378
Sciences, total	12,543	12,450	12,704	12,951	13,101	13,035	13,383	13,664	13,327	13,449
Physical sciences, total	2,120	2,157	2,093	2,198	2,137	2,076	2,131	2,139	2,029	1,885
Astronomy	84	100	106	103	120	137	151	132	110	128
Chemistry	1,351	1,328	1,272	1,291	1,238	1,169	1,234	1,286	1,254	1,116
Physics	671	709	704	789	764	761	731	705	654	622
Other physical sciences	14	20	11	15	15	9	15	16	11	19
Earth, atmospheric, and ocean sciences	592	506	463	507	478	462	537	500	472	475
Mathematics	463	454	496	504	554	490	530	576	537	513
Computer sciences	388	422	425	426	484	422	430	474	412	387
Biological sciences	3,314	3,328	3,449	3,422	3,494	3,547	3,670	3,753	3,649	3,895
Agricultural sciences	564	511	457	519	492	473	468	464	440	446
Psychology	2,953	2,900	3,071	3,052	3,083	3,124	3,046	3,181	3,168	3,146
Social sciences	2,149	2,172	2,250	2,323	2,379	2,441	2,571	2,577	2,620	2,702
Non-S&E, total	10,944	11,451	11,516	11,981	12,253	12,121	12,032	12,208	11,836	12,233
Health	779	809	879	961	938	933	958	1,071	962	1,113
Humanities[1]	2,975	3,211	3,273	3,486	3,747	3,726	3,945	4,020	3,991	4,150
Education	5,614	5,852	5,791	5,864	5,777	5,866	5,580	5,569	5,439	5,532
Professional/other	1,576	1,579	1,573	1,670	1,791	1,596	1,549	1,548	1,444	1,438
Grand total, all fields	25,573	26,010	26,448	27,147	27,740	27,750	28,151	28,437	27,636	27,888

See explanatory information, if any, and SOURCE at end of table.

Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Non-U.S. citizens									
Science and engineering, total	8,926	9,475	9,754	10,542	10,502	10,815	9,779	9,790	8,888	9,057
Engineering, total	3,021	3,154	3,253	3,491	3,480	3,513	3,144	3,061	2,593	2,794
Aeronautical/astronautical	102	120	105	116	107	111	110	84	92	85
Chemical	332	399	389	423	408	472	431	419	319	350
Civil	393	408	439	474	440	462	388	367	303	321
Electrical	822	847	868	1,000	1,000	970	898	875	763	893
Industrial	112	138	141	139	172	145	135	137	121	103
Materials/metallurgical	270	267	288	312	337	312	287	276	229	203
Mechanical	555	612	641	638	617	583	530	536	419	487
Other engineering	435	383	382	389	399	458	365	367	347	352
Sciences, total	5,905	6,321	6,501	7,051	7,022	7,302	6,635	6,729	6,295	6,263
Physical sciences, total	1,437	1,546	1,500	1,698	1,634	1,633	1,449	1,515	1,369	1,355
Astronomy	39	34	39	41	49	54	44	67	44	55
Chemistry	799	842	803	922	879	906	803	837	773	768
Physics	593	662	652	726	694	669	598	604	546	523
Other physical sciences	6	8	6	9	12	4	4	7	6	9
Earth, atmospheric, and ocean sciences	211	271	276	303	289	301	299	278	293	236
Mathematics	561	564	611	601	599	600	540	540	510	497
Computer sciences	403	432	432	460	497	468	421	413	402	432
Biological sciences	1,270	1,399	1,549	1,724	1,803	2,058	1,904	1,884	1,750	1,755
Agricultural sciences	491	534	496	550	535	544	474	541	510	471
Psychology	198	242	238	235	265	285	226	261	223	239
Social sciences	1,334	1,333	1,399	1,480	1,400	1,413	1,322	1,297	1,238	1,278
Non-S&E, total	2,242	2,458	2,437	2,611	2,626	2,566	2,330	2,400	2,475	2,540
Health	231	272	274	319	352	350	342	369	363	381
Humanities[1]	663	724	704	809	856	841	818	837	819	859
Education	677	718	723	736	720	673	573	659	697	665
Professional/other	671	744	736	747	698	702	597	535	596	635
Grand total, all fields	11,168	11,933	12,191	13,153	13,128	13,381	12,109	12,190	11,363	11,597

See explanatory information, if any, and SOURCE at end of table.

Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Non-U.S. citizens with permanent visas									
Science and engineering, total	1,285	1,383	1,641	3,021	3,509	3,009	2,280	2,016	1,652	1,409
Engineering, total	388	411	469	838	956	793	593	479	403	350
Aeronautical/astronautical	11	8	6	20	13	18	13	13	9	10
Chemical	51	60	53	87	90	73	88	46	38	42
Civil	40	51	59	89	103	93	78	51	51	41
Electrical	132	122	165	265	288	221	187	166	127	116
Industrial	18	20	16	30	41	29	17	17	13	10
Materials/metallurgical	29	34	39	79	114	92	44	48	35	22
Mechanical	62	74	87	179	180	152	82	82	65	56
Other engineering	45	42	44	89	127	115	84	56	65	53
Sciences, total	897	972	1,172	2,183	2,553	2,216	1,687	1,537	1,249	1,059
Physical sciences, total	180	200	237	591	704	403	366	313	242	199
Astronomy	2	6	5	9	21	12	7	15	7	12
Chemistry	110	113	128	325	386	293	205	179	150	120
Physics	68	81	102	255	295	187	152	117	84	66
Other physical sciences	0	0	2	2	2	1	2	2	1	1
Earth, atmospheric, and ocean sciences	26	35	41	106	116	96	70	62	51	34
Mathematics	55	53	94	153	217	158	99	93	66	55
Computer sciences	63	67	84	117	132	92	91	84	71	71
Biological sciences	211	240	303	666	835	818	584	551	464	365
Agricultural sciences	56	62	49	97	106	103	83	79	51	55
Psychology	65	86	90	84	101	104	89	93	70	75
Social sciences	241	229	274	369	342	352	305	262	234	205
Non-S&E, total	572	597	618	726	809	758	650	681	654	540
Health	60	46	60	89	106	83	69	82	77	75
Humanities[1]	219	229	238	280	308	319	289	304	283	233
Education	174	165	177	199	218	196	165	171	178	124
Professional/other	119	157	143	158	177	160	127	124	116	108
Grand total, all fields	1,857	1,980	2,259	3,747	4,318	3,767	2,930	2,697	2,306	1,949

See explanatory information, if any, and SOURCE at end of table.

Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Non-U.S. citizens with temporary visas									
Science and engineering, total	7,641	8,092	8,113	7,521	6,993	7,806	7,499	7,774	7,236	7,648
Engineering, total	2,633	2,743	2,784	2,653	2,524	2,720	2,551	2,582	2,190	2,444
Aeronautical/astronautical	91	112	99	96	94	93	97	71	83	75
Chemical	281	339	336	336	318	399	343	373	281	308
Civil	353	357	380	385	337	369	310	316	252	280
Electrical	690	725	703	735	712	749	711	709	636	777
Industrial	94	118	125	109	131	116	118	120	108	93
Materials/metallurgical	241	233	249	233	223	220	243	228	194	181
Mechanical	493	538	554	459	437	431	448	454	354	431
Other engineering	390	321	338	300	272	343	281	311	282	299
Sciences, total	5,008	5,349	5,329	4,868	4,469	5,086	4,948	5,192	5,046	5,204
Physical sciences, total	1,257	1,346	1,263	1,107	930	1,140	1,083	1,202	1,127	1,156
Astronomy	37	28	34	32	28	42	37	52	37	43
Chemistry	689	729	675	597	493	613	598	658	623	648
Physics	525	581	550	471	399	482	446	487	462	457
Other physical sciences	6	8	4	7	10	3	2	5	5	8
Earth, atmospheric, and ocean sciences	185	236	235	197	173	205	229	216	242	202
Mathematics	506	511	517	448	382	442	441	447	444	442
Computer sciences	340	365	348	343	365	376	330	329	331	361
Biological sciences	1,059	1,159	1,246	1,058	968	1,240	1,320	1,333	1,286	1,390
Agricultural sciences	435	472	447	453	429	441	391	462	459	416
Psychology	133	156	148	151	164	181	137	168	153	164
Social sciences	1,093	1,104	1,125	1,111	1,058	1,061	1,017	1,035	1,004	1,073
Non-S&E, total	1,670	1,861	1,819	1,885	1,817	1,808	1,680	1,719	1,821	2,000
Health	171	226	214	230	246	267	273	287	286	306
Humanities[1]	444	495	466	529	548	522	529	533	536	626
Education	503	553	546	537	502	477	408	488	519	541
Professional/other	552	587	593	589	521	542	470	411	480	527
Grand total, all fields	9,311	9,953	9,932	9,406	8,810	9,614	9,179	9,493	9,057	9,648

See explanatory information, if any, and SOURCE at end of table.

Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Citizenship unknown									
Science and engineering, total	468	641	757	497	545	784	1,342	1,258	1,225	1,267
Engineering, total	107	175	217	116	142	198	234	301	262	330
Aeronautical/astronautical	2	19	9	4	5	10	8	20	12	13
Chemical	11	8	24	9	9	8	15	29	21	38
Civil	9	22	17	7	10	23	19	37	20	18
Electrical	29	39	45	39	48	63	72	83	77	124
Industrial	3	4	6	0	4	6	9	8	5	6
Materials/metallurgical	8	16	19	9	13	16	23	24	17	27
Mechanical	23	23	42	18	25	33	36	53	39	38
Other engineering	22	44	55	30	28	39	52	47	71	66
Sciences, total	361	466	540	381	403	586	1,108	957	963	937
Physical sciences, total	69	78	106	81	70	128	188	169	180	171
Astronomy	2	0	0	0	4	1	3	8	5	4
Chemistry	44	44	62	44	45	73	110	92	105	106
Physics	22	32	43	33	21	54	72	68	70	60
Other physical sciences	1	2	1	4	0	0	3	1	0	1
Earth, atmospheric, and ocean sciences	12	17	32	14	13	31	42	36	40	46
Mathematics	15	40	39	13	37	32	53	61	36	38
Computer sciences	9	15	23	17	16	31	59	38	39	42
Biological sciences	66	72	94	57	78	118	212	206	182	205
Agricultural sciences	18	18	15	9	9	20	40	32	15	26
Psychology	99	121	111	92	81	82	296	234	268	238
Social sciences	73	105	120	98	99	144	218	181	203	171
Non-S&E, total	325	306	404	237	329	498	943	749	836	616
Health	31	31	44	16	40	41	122	61	79	95
Humanities[1]	82	101	114	79	87	146	272	255	218	205
Education	163	107	175	108	152	233	419	340	409	223
Professional/other	49	67	71	34	50	78	130	93	130	93
Grand total, all fields	793	947	1,161	734	874	1,282	2,285	2,007	2,061	1,883

[1] Categories differ from those published by other Federal sponsors and the National Research Council in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

Table 4a. Percentage distribution of science and engineering doctorates awarded, by major field and citizenship status of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Total									
Science and engineering, total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total	21.7	22.0	22.4	22.2	22.6	23.2	22.4	21.7	20.6	20.5
Aeronautical/astronautical	.9	.9	.9	.9	.9	1.1	1.0	.9	.8	.8
Chemical	2.9	2.9	2.9	2.8	2.7	2.9	2.8	2.8	2.6	2.8
Civil	2.4	2.4	2.5	2.6	2.5	2.6	2.4	2.4	2.2	2.1
Electrical	5.8	6.0	6.1	6.4	6.5	6.4	6.3	5.9	5.7	5.9
Industrial	.7	.8	.9	.9	1.1	.9	.9	.8	.8	.7
Materials/metallurgical	2.0	2.0	2.1	2.1	2.2	2.1	2.1	2.1	1.8	1.7
Mechanical	3.6	4.0	4.0	3.9	3.9	3.9	3.7	3.8	3.3	3.3
Other engineering	3.4	3.0	3.0	2.8	2.9	3.3	3.1	3.1	3.3	3.1
Sciences, total	78.3	78.0	77.6	77.8	77.4	76.8	77.6	78.3	79.4	79.5
Physical sciences, total	15.1	15.3	14.5	15.2	14.5	14.1	13.8	14.0	13.8	13.1
Astronomy	.5	.5	.6	.5	.7	.7	.7	.8	.6	.7
Chemistry	9.1	9.0	8.4	8.6	8.1	7.9	7.9	8.1	8.2	7.7
Physics	5.4	5.7	5.5	5.9	5.6	5.5	5.1	5.0	4.9	4.6
Other physical sciences	.1	.1	.1	.1	.1	.0	.1	.1	.1	.1
Earth, atmospheric, and ocean sciences	3.4	3.2	3.0	3.1	2.9	2.9	3.2	3.0	3.1	2.9
Mathematics	4.3	4.3	4.5	4.3	4.5	4.1	4.1	4.3	4.2	4.0
Computer sciences	3.3	3.5	3.5	3.4	3.8	3.4	3.3	3.4	3.3	3.3
Biological sciences	19.4	19.4	20.0	19.9	20.3	21.0	21.2	21.4	21.5	22.5
Agricultural sciences	4.5	4.3	3.8	4.1	3.9	3.8	3.6	3.8	3.7	3.6
Psychology	13.5	13.2	13.4	12.9	12.9	12.8	13.1	13.5	14.1	13.9
Social sciences	14.8	14.6	14.8	14.9	14.6	14.7	15.1	14.9	15.7	16.0
	Citizenship known									
Science and engineering, total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total	21.7	21.9	22.2	22.2	22.6	23.1	22.7	21.6	20.5	20.2
Aeronautical/astronautical	.9	.9	.9	.9	1.0	1.0	1.0	.9	.8	.8
Chemical	2.9	3.0	2.9	2.8	2.7	3.0	2.9	2.9	2.6	2.8
Civil	2.4	2.4	2.5	2.6	2.5	2.5	2.5	2.4	2.3	2.2
Electrical	5.8	6.0	6.1	6.4	6.5	6.3	6.4	5.8	5.7	5.7
Industrial	.7	.8	.9	.9	1.1	1.0	.9	.8	.8	.7
Materials/metallurgical	2.0	2.0	2.1	2.1	2.2	2.1	2.2	2.1	1.8	1.7
Mechanical	3.6	4.0	4.0	3.9	3.8	3.9	3.8	3.7	3.3	3.3
Other engineering	3.3	2.9	2.9	2.7	2.8	3.3	3.1	3.1	3.2	3.0
Sciences, total	78.3	78.1	77.8	77.8	77.4	76.9	77.3	78.4	79.5	79.8
Physical sciences, total	15.1	15.4	14.6	15.2	14.5	14.0	13.8	14.0	13.8	13.1
Astronomy	.5	.6	.6	.6	.7	.7	.8	.8	.6	.7
Chemistry	9.1	9.0	8.4	8.6	8.1	7.8	7.9	8.2	8.2	7.6
Physics	5.4	5.7	5.5	5.9	5.6	5.4	5.1	5.0	4.9	4.6
Other physical sciences	.1	.1	.1	.1	.1	.0	.1	.1	.1	.1
Earth, atmospheric, and ocean sciences	3.4	3.2	3.0	3.2	3.0	2.9	3.2	3.0	3.1	2.9
Mathematics	4.3	4.2	4.5	4.3	4.4	4.1	4.1	4.3	4.2	4.1
Computer sciences	3.4	3.6	3.5	3.4	3.8	3.4	3.3	3.4	3.3	3.3
Biological sciences	19.5	19.7	20.2	20.0	20.4	21.2	21.5	21.7	21.9	22.9
Agricultural sciences	4.5	4.3	3.9	4.2	4.0	3.8	3.6	3.9	3.8	3.7
Psychology	13.4	13.1	13.4	12.8	12.9	12.9	12.6	13.2	13.7	13.7
Social sciences	14.8	14.6	14.8	14.8	14.5	14.6	15.0	14.9	15.6	16.1

See explanatory information, if any, and SOURCE at end of table

Table 4a. Percentage distribution of science and engineering doctorates awarded, by major field and citizenship status of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	U.S. citizens									
Science and engineering, total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total	14.3	14.5	14.9	14.6	15.4	16.6	17.0	15.8	15.7	14.1
Aeronautical/astronautical	.7	.7	.8	.7	.9	1.1	1.0	.9	.6	.7
Chemical	2.4	2.2	2.2	1.9	1.9	2.0	2.0	2.0	2.1	2.2
Civil	1.2	1.1	1.1	1.3	1.3	1.4	1.5	1.5	1.6	1.4
Electrical	3.8	4.1	4.2	4.2	4.4	4.5	4.7	3.9	4.0	3.4
Industrial	.3	.4	.6	.6	.7	.7	.6	.5	.5	.4
Materials/metallurgical	1.4	1.4	1.5	1.4	1.5	1.6	1.7	1.6	1.4	1.4
Mechanical	2.0	2.4	2.3	2.4	2.5	2.8	2.8	2.7	2.5	2.2
Other engineering	2.4	2.2	2.2	2.0	2.2	2.6	2.7	2.7	2.8	2.4
Sciences, total	85.7	85.5	85.1	85.4	84.6	83.4	83.0	84.2	84.3	85.9
Physical sciences, total	14.5	14.8	14.0	14.5	13.8	13.3	13.2	13.2	12.8	12.0
Astronomy	.6	.7	.7	.7	.8	.9	.9	.8	.7	.8
Chemistry	9.2	9.1	8.5	8.5	8.0	7.5	7.7	7.9	7.9	7.1
Physics	4.6	4.9	4.7	5.2	4.9	4.9	4.5	4.3	4.1	4.0
Other physical sciences	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
Earth, atmospheric, and ocean sciences	4.0	3.5	3.1	3.3	3.1	3.0	3.3	3.1	3.0	3.0
Mathematics	3.2	3.1	3.3	3.3	3.6	3.1	3.3	3.5	3.4	3.3
Computer sciences	2.7	2.9	2.8	2.8	3.1	2.7	2.7	2.9	2.6	2.5
Biological sciences	22.7	22.9	23.1	22.6	22.6	22.7	22.8	23.1	23.1	24.9
Agricultural sciences	3.9	3.5	3.1	3.4	3.2	3.0	2.9	2.9	2.8	2.8
Psychology	20.2	19.9	20.6	20.1	19.9	20.0	18.9	19.6	20.1	20.1
Social sciences	14.7	14.9	15.1	15.3	15.4	15.6	16.0	15.9	16.6	17.3
	Non-U.S. citizens									
Science and engineering, total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total	33.8	33.3	33.4	33.1	33.1	32.5	32.2	31.3	29.2	30.8
Aeronautical/astronautical	1.1	1.3	1.1	1.1	1.0	1.0	1.1	.9	1.0	.9
Chemical	3.7	4.2	4.0	4.0	3.9	4.4	4.4	4.3	3.6	3.9
Civil	4.4	4.3	4.5	4.5	4.2	4.3	4.0	3.7	3.4	3.5
Electrical	9.2	8.9	8.9	9.5	9.5	9.0	9.2	8.9	8.6	9.9
Industrial	1.3	1.5	1.4	1.3	1.6	1.3	1.4	1.4	1.4	1.1
Materials/metallurgical	3.0	2.8	3.0	3.0	3.2	2.9	2.9	2.8	2.6	2.2
Mechanical	6.2	6.5	6.6	6.1	5.9	5.4	5.4	5.5	4.7	5.4
Other engineering	4.9	3.8	3.9	3.7	3.8	4.2	3.7	3.7	3.9	3.9
Sciences, total	66.2	66.7	66.6	66.9	66.9	67.5	67.8	68.7	70.8	69.2
Physical sciences, total	16.1	16.3	15.4	16.1	15.6	15.1	14.8	15.5	15.4	15.0
Astronomy	.4	.4	.4	.4	.5	.5	.4	.7	.5	.6
Chemistry	9.0	8.9	8.2	8.7	8.4	8.4	8.2	8.5	8.7	8.5
Physics	6.6	7.0	6.7	6.9	6.6	6.2	6.1	6.2	6.1	5.8
Other physical sciences	.1	.1	.1	.1	.1	.0	.0	.1	.1	.1
Earth, atmospheric, and ocean sciences	2.4	2.9	2.8	2.9	2.8	2.8	3.1	2.8	3.3	2.6
Mathematics	6.3	6.0	6.3	5.7	5.7	5.5	5.5	5.5	5.7	5.5
Computer sciences	4.5	4.6	4.4	4.4	4.7	4.3	4.3	4.2	4.5	4.8
Biological sciences	14.2	14.8	15.9	16.4	17.2	19.0	19.5	19.2	19.7	19.4
Agricultural sciences	5.5	5.6	5.1	5.2	5.1	5.0	4.8	5.5	5.7	5.2
Psychology	2.2	2.6	2.4	2.2	2.5	2.6	2.3	2.7	2.5	2.6
Social sciences	14.9	14.1	14.3	14.0	13.3	13.1	13.5	13.2	13.9	14.1

See explanatory information, if any, and SOURCE at end of table.

Table 4a. Percentage distribution of science and engineering doctorates awarded, by major field and citizenship status of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Non-U.S. citizens with permanent visas									
Science and engineering, total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total	30.2	29.7	28.6	27.7	27.2	26.4	26.0	23.8	24.4	24.8
Aeronautical/astronautical	.9	.6	.4	.7	.4	.6	.6	.6	.5	.7
Chemical	4.0	4.3	3.2	2.9	2.6	2.4	3.9	2.3	2.3	3.0
Civil	3.1	3.7	3.6	2.9	2.9	3.1	3.4	2.5	3.1	2.9
Electrical	10.3	8.8	10.1	8.8	8.2	7.3	8.2	8.2	7.7	8.2
Industrial	1.4	1.4	1.0	1.0	1.2	1.0	.7	.8	.8	.7
Materials/metallurgical	2.3	2.5	2.4	2.6	3.2	3.1	1.9	2.4	2.1	1.6
Mechanical	4.8	5.4	5.3	5.9	5.1	5.1	3.6	4.1	3.9	4.0
Other engineering	3.5	3.0	2.7	2.9	3.6	3.8	3.7	2.8	3.9	3.8
Sciences, total	69.8	70.3	71.4	72.3	72.8	73.6	74.0	76.2	75.6	75.2
Physical sciences, total	14.0	14.5	14.4	19.6	20.1	16.4	16.1	15.5	14.6	14.1
Astronomy	.2	.4	.3	.3	.6	.4	.3	.7	.4	.9
Chemistry	8.6	8.2	7.8	10.8	11.0	9.7	9.0	8.9	9.1	8.5
Physics	5.3	5.9	6.2	8.4	8.4	6.2	6.7	5.8	5.1	4.7
Other physical sciences	.0	.0	.1	.1	.1	.0	.1	.1	.1	.1
Earth, atmospheric, and ocean sciences	2.0	2.5	2.5	3.5	3.3	3.2	3.1	3.1	3.1	2.4
Mathematics	4.3	3.8	5.7	5.1	6.2	5.3	4.3	4.6	4.0	3.9
Computer sciences	4.9	4.8	5.1	3.9	3.8	3.1	4.0	4.2	4.3	5.0
Biological sciences	16.4	17.4	18.5	22.0	23.8	27.2	25.6	27.3	28.1	25.9
Agricultural sciences	4.4	4.5	3.0	3.2	3.0	3.4	3.6	3.9	3.1	3.9
Psychology	5.1	6.2	5.5	2.8	2.9	3.5	3.9	4.6	4.2	5.3
Social sciences	18.8	16.6	16.7	12.2	9.7	11.7	13.4	13.0	14.2	14.5
	Non-U.S. citizens with temporary visas									
Science and engineering, total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total	34.5	33.9	34.3	35.3	36.1	34.8	34.0	33.2	30.3	32.0
Aeronautical/astronautical	1.2	1.4	1.2	1.3	1.3	1.2	1.3	.9	1.1	1.0
Chemical	3.7	4.2	4.1	4.5	4.5	5.1	4.6	4.8	3.9	4.0
Civil	4.6	4.4	4.7	5.1	4.8	4.7	4.1	4.1	3.5	3.7
Electrical	9.0	9.0	8.7	9.8	10.2	9.6	9.5	9.1	8.8	10.2
Industrial	1.2	1.5	1.5	1.4	1.9	1.5	1.6	1.5	1.5	1.2
Materials/metallurgical	3.2	2.9	3.1	3.1	3.2	2.8	3.2	2.9	2.7	2.4
Mechanical	6.5	6.6	6.8	6.1	6.2	5.5	6.0	5.8	4.9	5.6
Other engineering	5.1	4.0	4.2	4.0	3.9	4.4	3.7	4.0	3.9	3.9
Sciences, total	65.5	66.1	65.7	64.7	63.9	65.2	66.0	66.8	69.7	68.0
Physical sciences, total	16.5	16.6	15.6	14.7	13.3	14.6	14.4	15.5	15.6	15.1
Astronomy	.5	.3	.4	.4	.4	.5	.5	.7	.5	.6
Chemistry	9.0	9.0	8.3	7.9	7.0	7.9	8.0	8.5	8.6	8.5
Physics	6.9	7.2	6.8	6.3	5.7	6.2	5.9	6.3	6.4	6.0
Other physical sciences	.1	.1	.0	.1	.1	.0	.0	.1	.1	.1
Earth, atmospheric, and ocean sciences	2.4	2.9	2.9	2.6	2.5	2.6	3.1	2.8	3.3	2.6
Mathematics	6.6	6.3	6.4	6.0	5.5	5.7	5.9	5.7	6.1	5.8
Computer sciences	4.4	4.5	4.3	4.6	5.2	4.8	4.4	4.2	4.6	4.7
Biological sciences	13.9	14.3	15.4	14.1	13.8	15.9	17.6	17.1	17.8	18.2
Agricultural sciences	5.7	5.8	5.5	6.0	6.1	5.6	5.2	5.9	6.3	5.4
Psychology	1.7	1.9	1.8	2.0	2.3	2.3	1.8	2.2	2.1	2.1
Social sciences	14.3	13.6	13.9	14.8	15.1	13.6	13.6	13.3	13.9	14.0

See explanatory information, if any, and SOURCE at end of table.

Table 4a. Percentage distribution of science and engineering doctorates awarded, by major field and citizenship status of recipients: 1991-2000

Field of study	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Citizenship unknown									
Science and engineering, total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total	22.9	27.3	28.7	23.3	26.1	25.3	17.4	23.9	21.4	26.0
Aeronautical/astronautical	.4	3.0	1.2	.8	.9	1.3	.6	1.6	1.0	1.0
Chemical	2.4	1.2	3.2	1.8	1.7	1.0	1.1	2.3	1.7	3.0
Civil	1.9	3.4	2.2	1.4	1.8	2.9	1.4	2.9	1.6	1.4
Electrical	6.2	6.1	5.9	7.8	8.8	8.0	5.4	6.6	6.3	9.8
Industrial	.6	.6	.8	.0	.7	.8	.7	.6	.4	.5
Materials/metallurgical	1.7	2.5	2.5	1.8	2.4	2.0	1.7	1.9	1.4	2.1
Mechanical	4.9	3.6	5.5	3.6	4.6	4.2	2.7	4.2	3.2	3.0
Other engineering	4.7	6.9	7.3	6.0	5.1	5.0	3.9	3.7	5.8	5.2
Sciences, total	77.1	72.7	71.3	76.7	73.9	74.7	82.6	76.1	78.6	74.0
Physical sciences, total	14.7	12.2	14.0	16.3	12.8	16.3	14.0	13.4	14.7	13.5
Astronomy	.4	.0	.0	.0	.7	.1	.2	.6	.4	.3
Chemistry	9.4	6.9	8.2	8.9	8.3	9.3	8.2	7.3	8.6	8.4
Physics	4.7	5.0	5.7	6.6	3.9	6.9	5.4	5.4	5.7	4.7
Other physical sciences	.2	.3	.1	.8	.0	.0	.2	.1	.0	.1
Earth, atmospheric, and ocean sciences	2.6	2.7	4.2	2.8	2.4	4.0	3.1	2.9	3.3	3.6
Mathematics	3.2	6.2	5.2	2.6	6.8	4.1	3.9	4.8	2.9	3.0
Computer sciences	1.9	2.3	3.0	3.4	2.9	4.0	4.4	3.0	3.2	3.3
Biological sciences	14.1	11.2	12.4	11.5	14.3	15.1	15.8	16.4	14.9	16.2
Agricultural sciences	3.8	2.8	2.0	1.8	1.7	2.6	3.0	2.5	1.2	2.1
Psychology	21.2	18.9	14.7	18.5	14.9	10.5	22.1	18.6	21.9	18.8
Social sciences	15.6	16.4	15.9	19.7	18.2	18.4	16.2	14.4	16.6	13.5

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering, by country of citizenship, visa type, and year of doctorate: 1991-2000

Country of citizenship	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Total non-U.S. citizens, S&E									
Total foreign citizenship	8,926	9,475	9,754	10,542	10,502	10,815	9,779	9,790	8,888	9,057
North America, total	525	515	506	547	505	530	462	545	532	605
Canada	297	304	285	275	274	276	249	278	282	289
Caribbean	54	44	38	61	60	51	46	61	52	52
Central America	46	52	44	69	43	45	35	42	39	55
Mexico	128	115	139	142	128	158	132	164	159	209
South America, total	387	394	394	408	359	454	388	411	420	433
Argentina	62	86	53	56	49	66	67	70	53	76
Brazil	119	133	151	157	137	204	145	152	157	126
Chile	54	48	52	42	38	36	29	24	33	43
Colombia	49	37	35	48	45	42	38	26	45	54
South America, other	103	90	103	105	90	106	109	139	132	134
Europe, total	972	950	1,104	1,150	1,254	1,260	1,276	1,477	1,460	1,494
Belgium	43	42	24	21	32	25	17	17	21	20
England, United Kingdom	132	137	154	128	132	117	89	124	141	99
France	67	77	93	96	83	68	73	76	79	82
Germany	118	124	164	196	208	170	178	205	178	228
Europe, other	612	570	669	709	799	880	919	1,055	1,041	1,065
East Asia, total	4,486	4,865	5,010	5,484	5,486	5,597	4,555	4,531	4,069	4,249
Taiwan	1,127	1,242	1,213	1,301	1,240	1,149	1,022	891	733	669
China, People's Republic of	1,793	2,045	2,227	2,531	2,751	2,954	2,288	2,413	2,182	2,358
Hong Kong	121	109	109	95	90	110	84	83	53	45
Japan	125	132	132	182	155	167	149	152	156	197
Korea	1,114	1,127	1,123	1,150	1,005	979	848	794	740	746
Thailand	93	87	77	97	113	119	87	115	130	147
East Asia, other	113	123	129	128	132	119	77	83	75	87
West Asia, total	1,670	1,891	1,903	2,077	2,181	2,140	1,914	1,750	1,595	1,559
India	752	861	933	1,065	1,207	1,257	1,210	1,082	889	821
Iran	227	200	203	174	173	147	112	91	92	80
Iraq	24	34	17	22	14	9	7	5	5	2
Israel	89	87	89	109	86	84	59	58	47	45
Lebanon	55	62	50	73	56	53	30	37	24	27
Saudi Arabia	67	76	46	76	71	74	61	39	48	53
Turkey	100	132	136	144	166	147	160	161	187	266
West Asia, other	356	439	429	414	408	369	275	277	303	265
Pacific/Australasia, total	216	220	227	231	231	232	196	192	156	178
Australia	35	40	47	56	61	42	47	46	46	42
Indonesia	69	78	78	83	83	69	62	60	44	61
Pacific/Australasia, other	112	102	102	92	87	121	87	86	66	75
Africa, total	500	510	474	583	423	442	335	339	327	347
Egypt	112	101	88	104	78	89	70	84	61	79
Nigeria	83	68	55	60	53	39	23	34	34	22
Africa, other	305	341	331	419	292	314	242	221	232	246
Country unknown	170	130	136	62	63	160	653	545	329	192

See explanatory information, if any, and SOURCE at end of table.

Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering, by country of citizenship, visa type, and year of doctorate: 1991-2000

Country of citizenship	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Total non-U.S. citizens, engineering									
Total foreign citizenship	3,021	3,154	3,253	3,491	3,480	3,513	3,144	3,061	2,593	2,794
North America, total	84	73	82	90	82	96	81	92	109	118
Canada	54	46	42	36	41	45	44	35	51	49
Caribbean	3	5	4	14	7	8	12	15	12	8
Central America	5	6	9	10	8	6	2	6	5	6
Mexico	22	16	27	30	26	37	23	36	41	55
South America, total	86	87	97	111	88	117	92	97	91	106
Argentina	12	14	10	7	7	8	14	13	8	11
Brazil	34	31	46	49	46	65	43	47	40	35
Chile	8	10	5	8	8	8	1	1	6	9
Colombia	11	9	8	12	10	7	4	7	7	15
South America, other	21	23	28	35	17	29	30	29	30	36
Europe, total	200	202	244	257	297	236	233	294	275	294
Belgium	9	10	7	7	12	4	4	3	1	5
England, United Kingdom	14	17	18	14	20	10	12	12	14	11
France	19	25	32	32	24	25	11	23	23	23
Germany	8	18	23	29	37	16	27	29	36	45
Europe, other	150	132	164	175	204	181	179	227	201	210
East Asia, total	1,629	1,701	1,733	1,887	1,869	1,852	1,472	1,450	1,249	1,403
Taiwan	597	637	592	670	616	572	432	378	301	285
China, People's Republic of	477	508	543	656	773	804	636	668	580	711
Hong Kong	30	37	32	14	20	31	13	26	11	12
Japan	29	25	23	46	30	32	37	20	30	23
Korea	435	437	484	429	344	323	299	282	264	284
Thailand	20	21	18	34	38	43	38	51	51	58
East Asia, other	41	36	41	38	48	47	17	25	12	30
West Asia, total	768	863	889	908	961	982	907	805	658	662
India	357	405	448	480	572	617	586	518	369	354
Iran	123	110	95	92	85	66	60	43	42	38
Iraq	11	14	6	9	8	2	5	3	5	2
Israel	27	26	23	17	19	20	13	12	8	6
Lebanon	38	37	27	45	31	21	9	18	9	12
Saudi Arabia	26	31	19	28	25	34	30	17	24	17
Turkey	64	81	74	64	73	73	95	79	96	132
West Asia, other	122	159	197	173	148	149	109	115	105	101
Pacific/Australasia, total	45	48	43	50	44	38	46	46	24	44
Australia	7	11	6	11	7	6	8	4	8	4
Indonesia	19	24	29	28	29	15	22	27	13	27
Pacific/Australasia, other	19	13	8	11	8	17	16	15	3	13
Africa, total	155	138	121	168	122	143	105	106	95	107
Egypt	57	46	48	63	48	59	45	60	48	59
Nigeria	20	11	12	6	14	11	8	7	8	3
Africa, other	78	81	61	99	60	73	52	39	39	45
Country unknown	54	42	44	20	17	49	208	171	92	60

See explanatory information, if any, and SOURCE at end of table.

Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering, by country of citizenship, visa type, and year of doctorate: 1991-2000

Country of citizenship	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Total non-U.S. citizens, sciences									
Total foreign citizenship	5,905	6,321	6,501	7,051	7,022	7,302	6,635	6,729	6,295	6,263
North America, total	441	442	424	457	423	434	381	453	423	487
Canada	243	258	243	239	233	231	205	243	231	240
Caribbean	51	39	34	47	53	43	34	46	40	44
Central America	41	46	35	59	35	39	33	36	34	49
Mexico	106	99	112	112	102	121	109	128	118	154
South America, total	301	307	297	297	271	337	296	314	329	327
Argentina	50	72	43	49	42	58	53	57	45	65
Brazil	85	102	105	108	91	139	102	105	117	91
Chile	46	38	47	34	30	28	28	23	27	34
Colombia	38	28	27	36	35	35	34	19	38	39
South America, other	82	67	75	70	73	77	79	110	102	98
Europe, total	772	748	860	893	957	1,024	1,043	1,183	1,185	1,200
Belgium	34	32	17	14	20	21	13	14	20	15
England, United Kingdom	118	120	136	114	112	107	77	112	127	88
France	48	52	61	64	59	43	62	53	56	59
Germany	110	106	141	167	171	154	151	176	142	183
Europe, other	462	438	505	534	595	699	740	828	840	855
East Asia, total	2,857	3,164	3,277	3,597	3,617	3,745	3,083	3,081	2,820	2,846
Taiwan	530	605	621	631	624	577	590	513	432	384
China, People's Republic of	1,316	1,537	1,684	1,875	1,978	2,150	1,652	1,745	1,602	1,647
Hong Kong	91	72	77	81	70	79	71	57	42	33
Japan	96	107	109	136	125	135	112	132	126	174
Korea	679	690	639	721	661	656	549	512	476	462
Thailand	73	66	59	63	75	76	49	64	79	89
East Asia, other	72	87	88	90	84	72	60	58	63	57
West Asia, total	902	1,028	1,014	1,169	1,220	1,158	1,007	945	937	897
India	395	456	485	585	635	640	624	564	520	467
Iran	104	90	108	82	88	81	52	48	50	42
Iraq	13	20	11	13	6	7	2	2	0	0
Israel	62	61	66	92	67	64	46	46	39	39
Lebanon	17	25	23	28	25	32	21	19	15	15
Saudi Arabia	41	45	27	48	46	40	31	22	24	36
Turkey	36	51	62	80	93	74	65	82	91	134
West Asia, other	234	280	232	241	260	220	166	162	198	164
Pacific/Australasia, total	171	172	184	181	187	194	150	146	132	134
Australia	28	29	41	45	54	36	39	42	38	38
Indonesia	50	54	49	55	54	54	40	33	31	34
Pacific/Australasia, other	93	89	94	81	79	104	71	71	63	62
Africa, total	345	372	353	415	301	299	230	233	232	240
Egypt	55	55	40	41	30	30	25	24	13	20
Nigeria	63	57	43	54	39	28	15	27	26	19
Africa, other	227	260	270	320	232	241	190	182	193	201
Country unknown	116	88	92	42	46	111	445	374	237	132

See explanatory information, if any, and SOURCE at end of table.

Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering, by country of citizenship, visa type, and year of doctorate: 1991-2000

Country of citizenship	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Permanent visas, S&E									
Total foreign citizenship	1,285	1,383	1,641	3,021	3,509	3,009	2,280	2,016	1,652	1,409
North America, total	126	118	120	119	135	119	104	112	100	91
Canada	75	76	71	58	78	70	53	66	56	51
Caribbean	19	16	15	28	26	27	20	21	20	17
Central America	11	8	6	14	8	2	8	5	12	5
Mexico	21	18	28	19	23	20	23	20	12	18
South America, total	62	74	63	64	51	64	70	50	49	49
Argentina	16	17	17	13	9	17	20	6	9	12
Brazil	8	21	11	16	11	11	7	11	10	10
Chile	6	6	7	4	9	5	8	7	11	6
Colombia	11	9	5	13	8	10	6	5	4	9
South America, other	21	21	23	18	14	21	29	21	15	12
Europe, total	211	210	258	275	284	312	338	359	336	339
Belgium	8	8	8	4	7	8	8	3	6	5
England, United Kingdom	52	58	47	56	49	50	39	43	51	36
France	12	10	19	16	15	16	23	25	15	19
Germany	25	39	45	62	53	51	42	43	33	60
Europe, other	114	95	139	137	160	187	226	245	231	219
East Asia, total	407	486	663	2,001	2,487	1,937	1,237	1,076	744	565
Taiwan	160	172	155	178	165	136	148	103	78	66
China, People's Republic of	100	162	352	1,642	2,169	1,630	954	845	530	379
Hong Kong	16	28	20	20	15	18	15	14	11	8
Japan	20	18	20	30	19	23	24	22	27	35
Korea	91	83	91	99	87	93	80	71	79	61
Thailand	8	9	11	11	10	14	4	8	3	4
East Asia, other	12	14	14	21	22	23	12	13	16	12
West Asia, total	287	340	359	375	383	388	315	259	285	234
India	108	148	142	173	168	198	187	135	135	108
Iran	83	82	100	65	84	74	37	38	46	40
Iraq	3	8	4	7	5	4	1	3	3	1
Israel	18	15	22	41	21	17	17	17	16	9
Lebanon	10	6	11	12	11	11	6	7	9	5
Saudi Arabia	2	7	4	7	4	10	1	0	3	3
Turkey	11	20	18	15	19	23	21	17	22	26
West Asia, other	52	54	58	55	71	51	45	42	51	42
Pacific/Australasia, total	34	23	35	40	43	32	30	25	31	30
Australia	9	9	10	13	10	13	9	6	18	11
Indonesia	9	5	6	13	16	3	8	7	5	11
Pacific/Australasia, other	16	9	19	14	17	16	13	12	8	8
Africa, total	103	95	100	123	91	83	83	82	78	83
Egypt	13	9	9	12	12	11	12	12	9	16
Nigeria	35	34	30	33	32	17	7	15	20	11
Africa, other	55	52	61	78	47	55	64	55	49	56
Country unknown	55	37	43	24	35	74	103	53	29	18

See explanatory information, if any, and SOURCE at end of table.

Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering, by country of citizenship, visa type, and year of doctorate: 1991-2000

Country of citizenship	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Permanent visas, engineering									
Total foreign citizenship	388	411	469	838	956	793	593	479	403	350
North America, total	17	13	16	14	23	15	14	17	19	13
Canada	14	8	9	6	9	6	7	8	10	7
Caribbean	0	2	2	4	3	5	4	5	5	3
Central America	2	2	1	2	4	0	1	0	2	0
Mexico	1	1	4	2	7	4	2	4	2	3
South America, total	12	14	8	13	7	9	12	7	6	6
Argentina	5	4	2	1	1	3	5	0	0	1
Brazil	2	2	1	2	2	3	2	2	3	0
Chile	0	1	0	1	1	0	0	0	2	1
Colombia	1	2	1	4	1	1	2	1	0	3
South America, other	4	5	4	5	2	2	3	4	1	1
Europe, total	33	33	42	49	68	58	70	69	56	68
Belgium	1	2	2	1	1	1	3	0	1	1
England, United Kingdom	3	8	4	7	9	4	4	6	7	4
France	4	3	4	5	3	5	3	6	4	8
Germany	0	5	3	11	8	6	6	4	3	11
Europe, other	25	15	29	25	47	42	54	53	41	44
East Asia, total	166	163	221	576	696	517	317	253	191	156
Taiwan	88	80	73	89	76	77	57	39	38	27
China, People's Republic of	25	39	88	426	566	380	215	182	108	99
Hong Kong	7	10	10	7	5	9	4	4	5	1
Japan	5	3	2	5	2	2	3	0	1	3
Korea	36	25	43	42	34	36	36	20	33	24
Thailand	1	2	1	1	4	3	0	5	2	1
East Asia, other	4	4	4	6	9	10	2	3	4	1
West Asia, total	118	144	151	140	119	151	121	96	100	76
India	44	57	56	61	55	77	65	43	39	27
Iran	42	44	43	28	29	29	17	19	19	16
Iraq	0	2	2	5	3	0	1	2	3	1
Israel	4	5	6	6	0	0	2	2	2	0
Lebanon	4	4	6	5	3	8	2	5	7	1
Saudi Arabia	0	1	2	3	3	3	0	0	2	1
Turkey	5	10	6	6	7	12	15	4	11	13
West Asia, other	19	21	30	26	19	22	19	21	17	17
Pacific/Australasia, total	5	7	6	12	9	4	7	7	6	6
Australia	2	4	1	4	0	2	1	0	4	1
Indonesia	3	2	4	7	7	0	4	6	1	4
Pacific/Australasia, other	0	1	1	1	2	2	2	1	1	1
Africa, total	25	23	14	28	28	24	22	20	21	22
Egypt	4	3	3	4	9	4	5	8	6	10
Nigeria	9	6	3	2	10	5	1	2	5	2
Africa, other	12	14	8	22	9	15	16	10	10	10
Country unknown	12	14	11	6	6	15	30	10	4	3

See explanatory information, if any, and SOURCE at end of table.

Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering, by country of citizenship, visa type, and year of doctorate: 1991-2000

Country of citizenship	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Permanent visas, sciences									
Total foreign citizenship	897	972	1,172	2,183	2,553	2,216	1,687	1,537	1,249	1,059
North America, total	109	105	104	105	112	104	90	95	81	78
Canada	61	68	62	52	69	64	46	58	46	44
Caribbean	19	14	13	24	23	22	16	16	15	14
Central America	9	6	5	12	4	2	7	5	10	5
Mexico	20	17	24	17	16	16	21	16	10	15
South America, total	50	60	55	51	44	55	58	43	43	43
Argentina	11	13	15	12	8	14	15	6	9	11
Brazil	6	19	10	14	9	8	5	9	7	10
Chile	6	5	7	3	8	5	8	7	9	5
Colombia	10	7	4	9	7	9	4	4	4	6
South America, other	17	16	19	13	12	19	26	17	14	11
Europe, total	178	177	216	226	216	254	268	290	280	271
Belgium	7	6	6	3	6	7	5	3	5	4
England, United Kingdom	49	50	43	49	40	46	35	37	44	32
France	8	7	15	11	12	11	20	19	11	11
Germany	25	34	42	51	45	45	36	39	30	49
Europe, other	89	80	110	112	113	145	172	192	190	175
East Asia, total	241	323	442	1,425	1,791	1,420	920	823	553	409
Taiwan	72	92	82	89	89	59	91	64	40	39
China, People's Republic of	75	123	264	1,216	1,603	1,250	739	663	422	280
Hong Kong	9	18	10	13	10	9	11	10	6	7
Japan	15	15	18	25	17	21	21	22	26	32
Korea	55	58	48	57	53	57	44	51	46	37
Thailand	7	7	10	10	6	11	4	3	1	3
East Asia, other	8	10	10	15	13	13	10	10	12	11
West Asia, total	169	196	208	235	264	237	194	163	185	158
India	64	91	86	112	113	121	122	92	96	81
Iran	41	38	57	37	55	45	20	19	27	24
Iraq	3	6	2	2	2	4	0	1	0	0
Israel	14	10	16	35	21	17	15	15	14	9
Lebanon	6	2	5	7	8	3	4	2	2	4
Saudi Arabia	2	6	2	4	1	7	1	0	1	2
Turkey	6	10	12	9	12	11	6	13	11	13
West Asia, other	33	33	28	29	52	29	26	21	34	25
Pacific/Australasia, total	29	16	29	28	34	28	23	18	25	24
Australia	7	5	9	9	10	11	8	6	14	10
Indonesia	6	3	2	6	9	3	4	1	4	7
Pacific/Australasia, other	16	8	18	13	15	14	11	11	7	7
Africa, total	78	72	86	95	63	59	61	62	57	61
Egypt	9	6	6	8	3	7	7	4	3	6
Nigeria	26	28	27	31	22	12	6	13	15	9
Africa, other	43	38	53	56	38	40	48	45	39	46
Country unknown	43	23	32	18	29	59	73	43	25	15

See explanatory information, if any, and SOURCE at end of table.

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Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering, by country of citizenship, visa type, and year of doctorate: 1991-2000

Country of citizenship	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Temporary visas, S&E									
Total foreign citizenship	7,641	8,092	8,113	7,521	6,993	7,806	7,499	7,774	7,236	7,648
North America, total	399	397	386	428	370	411	358	433	432	514
Canada	222	228	214	217	196	206	196	212	226	238
Caribbean	35	28	23	33	34	24	26	40	32	35
Central America	35	44	38	55	35	43	27	37	27	50
Mexico	107	97	111	123	105	138	109	144	147	191
South America, total	325	320	331	344	308	390	318	361	371	384
Argentina	46	69	36	43	40	49	47	64	44	64
Brazil	111	112	140	141	126	193	138	141	147	116
Chile	48	42	45	38	29	31	21	17	22	37
Colombia	38	28	30	35	37	32	32	21	41	45
South America, other	82	69	80	87	76	85	80	118	117	122
Europe, total	761	740	846	875	970	948	938	1,118	1,124	1,155
Belgium	35	34	16	17	25	17	9	14	15	15
England, United Kingdom	80	79	107	72	83	67	50	81	90	63
France	55	67	74	80	68	52	50	51	64	63
Germany	93	85	119	134	155	119	136	162	145	168
Europe, other	498	475	530	572	639	693	693	810	810	846
East Asia, total	4,079	4,379	4,347	3,483	2,999	3,660	3,318	3,455	3,325	3,684
Taiwan	967	1,070	1,058	1,123	1,075	1,013	874	788	655	603
China, People's Republic of	1,693	1,883	1,875	889	582	1,324	1,334	1,568	1,652	1,979
Hong Kong	105	81	89	75	75	92	69	69	42	37
Japan	105	114	112	152	136	144	125	130	129	162
Korea	1,023	1,044	1,032	1,051	918	886	768	723	661	685
Thailand	85	78	66	86	103	105	83	107	127	143
East Asia, other	101	109	115	107	110	96	65	70	59	75
West Asia, total	1,383	1,551	1,544	1,702	1,798	1,752	1,599	1,491	1,310	1,325
India	644	713	791	892	1,039	1,059	1,023	947	754	713
Iran	144	118	103	109	89	73	75	53	46	40
Iraq	21	26	13	15	9	5	6	2	2	1
Israel	71	72	67	68	65	67	42	41	31	36
Lebanon	45	56	39	61	45	42	24	30	15	22
Saudi Arabia	65	69	42	69	67	64	60	39	45	50
Turkey	89	112	118	129	147	124	139	144	165	240
West Asia, other	304	385	371	359	337	318	230	235	252	223
Pacific/Australasia, total	182	197	192	191	188	200	166	167	125	148
Australia	26	31	37	43	51	29	38	40	28	31
Indonesia	60	73	72	70	67	66	54	53	39	50
Pacific/Australasia, other	96	93	83	78	70	105	74	74	58	67
Africa, total	397	415	374	460	332	359	252	257	249	264
Egypt	99	92	79	92	66	78	58	72	52	63
Nigeria	48	34	25	27	21	22	16	19	14	11
Africa, other	250	289	270	341	245	259	178	166	183	190
Country unknown	115	93	93	38	28	86	550	492	300	174

See explanatory information, if any, and SOURCE at end of table.

Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering, by country of citizenship, visa type, and year of doctorate: 1991-2000

Country of citizenship	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Temporary visas, engineering									
Total foreign citizenship	2,633	2,743	2,784	2,653	2,524	2,720	2,551	2,582	2,190	2,444
North America, total	67	60	66	76	59	81	67	75	90	105
Canada	40	38	33	30	32	39	37	27	41	42
Caribbean	3	3	2	10	4	3	8	10	7	5
Central America	3	4	8	8	4	6	1	6	3	6
Mexico	21	15	23	28	19	33	21	32	39	52
South America, total	74	73	89	98	81	108	80	90	85	100
Argentina	7	10	8	6	6	5	9	13	8	10
Brazil	32	29	45	47	44	62	41	45	37	35
Chile	6	9	5	7	7	8	1	1	4	8
Colombia	10	7	7	8	9	6	2	6	7	12
South America, other	17	18	24	30	15	27	27	25	29	35
Europe, total	167	169	202	208	229	178	163	225	219	226
Belgium	8	8	5	6	11	3	1	3	0	4
England, United Kingdom	11	9	14	7	11	6	8	6	7	7
France	15	22	28	27	21	20	8	17	19	15
Germany	8	13	20	18	29	10	21	25	33	34
Europe, other	125	117	135	150	157	139	125	174	160	166
East Asia, total	1,463	1,538	1,512	1,311	1,173	1,335	1,155	1,197	1,058	1,247
Taiwan	509	557	519	581	540	495	375	339	263	258
China, People's Republic of	452	469	455	230	207	424	421	486	472	612
Hong Kong	23	27	22	7	15	22	9	22	6	11
Japan	24	22	21	41	28	30	34	20	29	20
Korea	399	412	441	387	310	287	263	262	231	260
Thailand	19	19	17	33	34	40	38	46	49	57
East Asia, other	37	32	37	32	39	37	15	22	8	29
West Asia, total	650	719	738	768	842	831	786	709	558	586
India	313	348	392	419	517	540	521	475	330	327
Iran	81	66	52	64	56	37	43	24	23	22
Iraq	11	12	4	4	5	2	4	1	2	1
Israel	23	21	17	11	19	20	11	10	6	6
Lebanon	34	33	21	40	28	13	7	13	2	11
Saudi Arabia	26	30	17	25	22	31	30	17	22	16
Turkey	59	71	68	58	66	61	80	75	85	119
West Asia, other	103	138	167	147	129	127	90	94	88	84
Pacific/Australasia, total	40	41	37	38	35	34	39	39	18	38
Australia	5	7	5	7	7	4	7	4	4	3
Indonesia	16	22	25	21	22	15	18	21	12	23
Pacific/Australasia, other	19	12	7	10	6	15	14	14	2	12
Africa, total	130	115	107	140	94	119	83	86	74	85
Egypt	53	43	45	59	39	55	40	52	42	49
Nigeria	11	5	9	4	4	6	7	5	3	1
Africa, other	66	67	53	77	51	58	36	29	29	35
Country unknown	42	28	33	14	11	34	178	161	88	57

See explanatory information, if any, and SOURCE at end of table.

Table 5. Non-U.S. citizens awarded doctorates in the sciences and in engineering, by country of citizenship, visa type, and year of doctorate: 1991-2000

Country of citizenship	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Temporary visas, sciences									
Total foreign citizenship	5,008	5,349	5,329	4,868	4,469	5,086	4,948	5,192	5,046	5,204
North America, total	332	337	320	352	311	330	291	358	342	409
Canada	182	190	181	187	164	167	159	185	185	196
Caribbean	32	25	21	23	30	21	18	30	25	30
Central America	32	40	30	47	31	37	26	31	24	44
Mexico	86	82	88	95	86	105	88	112	108	139
South America, total	251	247	242	246	227	282	238	271	286	284
Argentina	39	59	28	37	34	44	38	51	36	54
Brazil	79	83	95	94	82	131	97	96	110	81
Chile	40	33	40	31	22	23	20	16	18	29
Colombia	28	21	23	27	28	26	30	15	34	33
South America, other	65	51	56	57	61	58	53	93	88	87
Europe, total	594	571	644	667	741	770	775	893	905	929
Belgium	27	26	11	11	14	14	8	11	15	11
England, United Kingdom	69	70	93	65	72	61	42	75	83	56
France	40	45	46	53	47	32	42	34	45	48
Germany	85	72	99	116	126	109	115	137	112	134
Europe, other	373	358	395	422	482	554	568	636	650	680
East Asia, total	2,616	2,841	2,835	2,172	1,826	2,325	2,163	2,258	2,267	2,437
Taiwan	458	513	539	542	535	518	499	449	392	345
China, People's Republic of	1,241	1,414	1,420	659	375	900	913	1,082	1,180	1,367
Hong Kong	82	54	67	68	60	70	60	47	36	26
Japan	81	92	91	111	108	114	91	110	100	142
Korea	624	632	591	664	608	599	505	461	430	425
Thailand	66	59	49	53	69	65	45	61	78	86
East Asia, other	64	77	78	75	71	59	50	48	51	46
West Asia, total	733	832	806	934	956	921	813	782	752	739
India	331	365	399	473	522	519	502	472	424	386
Iran	63	52	51	45	33	36	32	29	23	18
Iraq	10	14	9	11	4	3	2	1	0	0
Israel	48	51	50	57	46	47	31	31	25	30
Lebanon	11	23	18	21	17	29	17	17	13	11
Saudi Arabia	39	39	25	44	45	33	30	22	23	34
Turkey	30	41	50	71	81	63	59	69	80	121
West Asia, other	201	247	204	212	208	191	140	141	164	139
Pacific/Australasia, total	142	156	155	153	153	166	127	128	107	110
Australia	21	24	32	36	44	25	31	36	24	28
Indonesia	44	51	47	49	45	51	36	32	27	27
Pacific/Australasia, other	77	81	76	68	64	90	60	60	56	55
Africa, total	267	300	267	320	238	240	169	171	175	179
Egypt	46	49	34	33	27	23	18	20	10	14
Nigeria	37	29	16	23	17	16	9	14	11	10
Africa, other	184	222	217	264	194	201	142	137	154	155
Country unknown	73	65	60	24	17	52	372	331	212	117

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	S&E rank*	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
Total, all institutions	-	25,979	5,330	726	558	1,544	864	1,638	3,411	1,392	1,990	29
Alabama, total	27	303	67	9	5	16	13	24	40	21	19	0
Auburn University	69	127	26	6	1	7	5	7	14	3	11	0
United States Sports Academy	340	0	0	0	0	0	0	0	0	0	0	0
University of Alabama	121	59	17	3	3	5	3	3	10	3	7	0
University of Alabama Birmingham	103	79	8	0	1	0	1	6	7	6	1	0
University of Alabama Huntsville	184	29	16	0	0	4	4	8	9	9	0	0
University of South Alabama	273	9	0	0	0	0	0	0	0	0	0	0
Alaska, total	51	19	3	0	1	1	0	1	2	2	0	0
University of Alaska Fairbanks	228	19	3	0	1	1	0	1	2	2	0	0
Arizona, total	20	441	94	10	9	47	10	18	67	40	26	1
Arizona State University Main	51	164	55	4	6	30	6	9	19	10	9	0
Northern Arizona University	252	13	0	0	0	0	0	0	0	0	0	0
University of Arizona	22	264	39	6	3	17	4	9	48	30	17	1
Arkansas, total	43	75	7	0	0	4	3	0	14	3	8	3
U of Arkansas	150	44	7	0	0	4	3	0	11	3	8	0
U of Arkansas Little Rock	309	3	0	0	0	0	0	0	3	0	0	3
U of Arkansas for Med Sciences	190	28	0	0	0	0	0	0	0	0	0	0
California, total	1	3,321	728	55	84	258	121	210	418	170	242	6
Azusa Pacific University	340	0	0	0	0	0	0	0	0	0	0	0
Biola University	273	9	0	0	0	0	0	0	0	0	0	0
CA Inst Integral Studies	340	0	0	0	0	0	0	0	0	0	0	0
CA Inst Technology	69	127	46	4	3	20	5	14	41	17	24	0
CA Sch Prof Psych Berkeley	129	54	0	0	0	0	0	0	0	0	0	0
CA Sch Prof Psych Fresno	164	37	0	0	0	0	0	0	0	0	0	0
CA Sch Prof Psych Los Angeles	158	40	0	0	0	0	0	0	0	0	0	0
CA Sch Prof Psych San Diego	120	62	0	0	0	0	0	0	0	0	0	0
Claremont Graduate University	154	42	0	0	0	0	0	0	0	0	0	0
Fielding Institute, The	110	71	0	0	0	0	0	0	0	0	0	0
Fuller Theological Seminary CA	177	31	0	0	0	0	0	0	0	0	0	0
Graduate Theological Union	333	1	0	0	0	0	0	0	0	0	0	0
Loma Linda University	190	28	0	0	0	0	0	0	0	0	0	0
Loma Linda U La Sierra Campus	340	0	0	0	0	0	0	0	0	0	0	0
Naval Postgraduate School	273	9	3	0	0	2	0	1	1	1	0	0
Pacific Grad School of Psych	169	36	0	0	0	0	0	0	0	0	0	0
Pepperdine University Malibu	340	0	0	0	0	0	0	0	0	0	0	0
Rand Grad Sch of Policy Studies	288	6	0	0	0	0	0	0	0	0	0	0
San Diego State University	217	21	0	0	0	0	0	0	0	0	0	0
Santa Clara University	309	3	3	0	0	2	1	0	0	0	0	0
School of Theology at Claremont	340	0	0	0	0	0	0	0	0	0	0	0
Scripps Research Institute, The	244	15	0	0	0	0	0	0	8	0	8	0
Stanford University	4	448	181	14	10	63	30	64	52	28	23	1
United States International U	280	7	0	0	0	0	0	0	0	0	0	0
U of California Berkeley	1	523	139	11	27	27	44	30	85	31	51	3
U of California Davis	18	303	64	3	17	12	8	24	36	10	26	0
U of California Irvine	54	158	30	2	6	5	6	11	32	5	25	2
U of California Los Angeles	10	377	75	8	10	33	15	9	47	26	21	0
U of California Riverside	106	77	0	0	0	0	0	0	10	5	5	0
U of California San Diego	28	240	44	1	0	20	3	20	41	23	18	0
U of California San Francisco	119	64	2	0	0	0	0	2	8	0	8	0
U of California Santa Barbara	49	167	58	11	0	28	3	16	21	10	11	0
U of California Santa Cruz	109	73	4	0	0	4	0	0	13	9	4	0

See explanatory information, if any, and SOURCE at end of table.

Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	Earth, atmos., & ocean sciences	Mathematics	Computer sciences	Biological & agricultural sciences			Psychology	Social sciences	Non-S&E, total	Grand total, all fields
				Total	Biological	Agricultural				
Total, all institutions	757	1,048	861	6,798	5,855	943	3,623	4,151	15,389	41,368
Alabama, total	3	14	7	103	80	23	45	24	215	518
Auburn University	0	7	3	38	15	23	29	10	59	186
United States Sports Academy	0	0	0	0	0	0	0	0	13	13
University of Alabama	1	3	1	7	7	0	8	12	88	147
University of Alabama Birmingham	0	3	1	50	50	0	8	2	46	125
University of Alabama Huntsville	1	1	2	0	0	0	0	0	0	29
University of South Alabama	1	0	0	8	8	0	0	0	9	18
Alaska, total	6	0	0	6	4	2	0	2	1	20
University of Alaska Fairbanks	6	0	0	6	4	2	0	2	1	20
Arizona, total	32	15	12	103	82	21	40	78	297	738
Arizona State University Main	3	3	6	22	22	0	24	32	119	283
Northern Arizona University	0	0	0	8	5	3	0	5	39	52
University of Arizona	29	12	6	73	55	18	16	41	139	403
Arkansas, total	0	1	1	42	34	8	9	1	54	129
U of Arkansas	0	1	1	14	6	8	9	1	42	86
U of Arkansas Little Rock	0	0	0	0	0	0	0	0	11	14
U of Arkansas for Med Sciences	0	0	0	28	28	0	0	0	1	29
California, total	81	125	124	733	683	50	575	537	1,385	4,706
Azusa Pacific University	0	0	0	0	0	0	0	0	4	4
Biola University	0	0	0	0	0	0	9	0	11	20
CA Inst Integral Studies	0	0	0	0	0	0	0	0	1	1
CA Inst Technology	2	6	1	27	27	0	0	4	0	127
CA Sch Prof Psych Berkeley	0	0	0	0	0	0	54	0	1	55
CA Sch Prof Psych Fresno	0	0	0	0	0	0	37	0	0	37
CA Sch Prof Psych Los Angeles	0	0	0	0	0	0	40	0	1	41
CA Sch Prof Psych San Diego	0	0	0	0	0	0	62	0	0	62
Claremont Graduate University	0	4	2	1	1	0	14	21	53	95
Fielding Institute, The	0	0	0	0	0	0	68	3	50	121
Fuller Theological Seminary CA	0	0	0	0	0	0	30	1	25	56
Graduate Theological Union	0	0	0	0	0	0	0	1	20	21
Loma Linda University	0	0	0	19	19	0	9	0	11	39
Loma Linda U La Sierra Campus	0	0	0	0	0	0	0	0	2	2
Naval Postgraduate School	0	2	3	0	0	0	0	0	0	9
Pacific Grad School of Psych	0	0	0	0	0	0	36	0	0	36
Pepperdine University Malibu	0	0	0	0	0	0	0	0	34	34
Rand Grad Sch of Policy Studies	0	0	0	0	0	0	0	6	0	6
San Diego State University	0	0	0	7	7	0	10	4	9	30
Santa Clara University	0	0	0	0	0	0	0	0	0	3
School of Theology at Claremont	0	0	0	0	0	0	0	0	5	5
Scripps Research Institute, The	0	0	0	7	7	0	0	0	0	15
Stanford University	15	16	19	75	75	0	18	72	119	567
United States International U	0	0	0	0	0	0	7	0	3	10
U of California Berkeley	10	30	21	91	83	8	26	121	228	751
U of California Davis	9	8	6	141	113	28	7	32	53	356
U of California Irvine	4	2	14	38	38	0	12	26	43	201
U of California Los Angeles	7	24	22	101	100	1	28	73	227	604
U of California Riverside	2	5	1	38	26	12	10	11	38	115
U of California San Diego	18	14	5	65	65	0	9	44	38	278
U of California San Francisco	0	0	0	51	51	0	0	3	17	81
U of California Santa Barbara	2	8	7	15	15	0	20	36	63	230
U of California Santa Cruz	8	4	4	15	14	1	6	19	17	90

See explanatory information, if any, and SOURCE at end of table.

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Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	S&E rank*	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
California, continued:												
University of La Verne	340	0	0	0	0	0	0	0	0	0	0	0
University of the Pacific	320	2	0	0	0	0	0	0	2	0	2	0
University of San Diego	340	0	0	0	0	0	0	0	0	0	0	0
University of San Francisco	291	5	0	0	0	0	0	0	0	0	0	0
University of Southern CA	26	259	79	1	11	42	6	19	21	5	16	0
Wright Institute, All Campuses	200	26	0	0	0	0	0	0	0	0	0	0
Colorado, total	17	498	119	13	25	27	12	42	76	35	41	0
Colorado School of Mines	151	43	25	8	0	0	0	17	7	3	4	0
Colorado State University	59	152	25	0	12	4	6	3	17	4	13	0
University of Colorado Boulder	37	202	61	5	12	19	6	19	49	28	21	0
University of Colorado at Colorado Springs	291	5	4	0	0	4	0	0	0	0	0	0
University of Colorado at Denver	246	14	1	0	1	0	0	0	0	0	0	0
University of Colorado Health Science Center	194	27	0	0	0	0	0	0	0	0	0	0
University of Denver	161	39	3	0	0	0	0	3	2	0	2	0
University of Northern Colorado	240	16	0	0	0	0	0	0	1	0	1	0
Connecticut, total	22	403	49	8	5	11	9	16	52	22	29	1
University of Connecticut	41	184	37	7	5	6	4	15	21	8	12	1
University of New Haven	340	0	0	0	0	0	0	0	0	0	0	0
Wesleyan University	252	13	0	0	0	0	0	0	4	1	3	0
Yale University	35	206	12	1	0	5	5	1	27	13	14	0
Delaware, total	38	121	36	18	3	4	7	4	14	4	10	0
University of Delaware	72	121	36	18	3	4	7	4	14	4	10	0
Wilmington College	340	0	0	0	0	0	0	0	0	0	0	0
District of Columbia, total	26	342	42	0	2	14	6	20	25	10	15	0
American University	154	42	0	0	0	0	0	0	6	3	3	0
Catholic University of America	194	27	6	0	0	2	3	1	5	2	3	0
Gallaudet University	297	4	0	0	0	0	0	0	0	0	0	0
George Washington University	71	126	31	0	2	9	3	17	1	1	0	0
Georgetown University	104	78	0	0	0	0	0	0	2	0	2	0
Howard University	115	65	5	0	0	3	0	2	11	4	7	0
Florida, total	9	810	168	12	21	41	29	65	81	31	50	0
Barry University	333	1	0	0	0	0	0	0	0	0	0	0
FL Agricultural and Mechanical U	280	7	1	0	0	0	0	1	0	0	0	0
Florida Atlantic University	222	20	11	0	0	7	2	2	1	1	0	0
Florida Institute of Technology	210	22	10	0	0	7	1	2	3	1	2	0
Florida International University	201	25	3	0	0	2	1	0	0	0	0	0
Florida State University	80	107	4	2	0	1	1	0	13	7	6	0
Nova Southeastern University	75	112	0	0	0	0	0	0	0	0	0	0
University of Central Florida	142	47	27	0	1	7	5	14	9	9	0	0
University of Florida	19	291	77	7	12	13	13	32	39	11	28	0
University of Miami	82	106	17	0	1	2	4	10	9	2	7	0
University of Sarasota	297	4	0	0	0	0	0	0	0	0	0	0
University of South Florida	113	68	18	3	7	2	2	4	7	0	7	0
Georgia, total	15	583	164	17	25	47	34	41	72	15	57	0
Clark Atlanta University	246	14	0	0	0	0	0	0	3	0	3	0
Emory University	88	94	0	0	0	0	0	0	15	3	12	0
Georgia Inst of Tech	31	223	159	15	25	47	34	38	22	5	17	0
Georgia Southern University	340	0	0	0	0	0	0	0	0	0	0	0
Georgia State University	129	54	0	0	0	0	0	0	6	3	3	0
Inst of Paper Science & Tech	309	3	2	2	0	0	0	0	0	0	0	0
Medical College of Georgia	267	10	0	0	0	0	0	0	0	0	0	0
University of Georgia	40	185	3	0	0	0	0	3	26	4	22	0
Hawaii, total	39	110	8	0	1	4	1	2	11	4	7	0
University of Hawaii at Manoa	76	110	8	0	1	4	1	2	11	4	7	0
Idaho, total	45	60	5	0	1	1	1	2	12	3	9	0
Idaho State University	267	10	1	0	0	0	0	1	1	1	0	0
University of Idaho	138	50	4	0	1	1	1	1	11	2	9	0

See explanatory information, if any, and SOURCE at end of table.

Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	Earth, atmos., & ocean sciences	Mathematics	Computer sciences	Biological & agricultural sciences			Psychology	Social sciences	Non-S&E, total	Grand total, all fields
				Total	Biological	Agricultural				
California, continued:										
University of La Verne	0	0	0	0	0	0	0	0	58	58
University of the Pacific	0	0	0	0	0	0	0	0	18	20
University of San Diego	0	0	0	0	0	0	0	0	13	13
University of San Francisco	0	0	0	0	0	0	5	0	71	76
University of Southern CA	4	2	19	42	42	0	32	60	152	411
Wright Institute, All Campuses	0	0	0	0	0	0	26	0	0	26
Colorado, total	37	18	19	114	91	23	51	64	229	727
Colorado School of Mines	10	0	0	0	0	0	0	1	0	43
Colorado State University	9	5	5	64	42	22	14	13	28	180
University of Colorado Boulder	16	7	11	17	16	1	8	33	65	267
University of Colorado at Colorado Springs	0	0	1	0	0	0	0	0	0	5
University of Colorado at Denver	1	5	0	0	0	0	0	7	11	25
University of Colorado Health Science Center	0	0	0	27	27	0	0	0	17	44
University of Denver	1	0	2	4	4	0	17	10	50	89
University of Northern Colorado	0	1	0	2	2	0	12	0	58	74
Connecticut, total	8	18	6	137	130	7	51	82	215	618
University of Connecticut	2	9	3	50	45	5	39	23	92	276
University of New Haven	0	0	0	0	0	0	0	0	3	3
Wesleyan University	0	0	0	8	8	0	0	1	1	14
Yale University	6	9	3	79	77	2	12	58	119	325
Delaware, total	11	3	5	12	10	2	9	31	63	184
University of Delaware	11	3	5	12	10	2	9	31	44	165
Wilmington College	0	0	0	0	0	0	0	0	19	19
District of Columbia, total	2	8	4	73	73	0	64	124	195	537
American University	1	0	0	1	1	0	5	29	10	52
Catholic University of America	0	0	0	1	1	0	10	5	56	83
Gallaudet University	0	0	0	0	0	0	4	0	2	6
George Washington University	0	6	4	30	30	0	21	33	70	196
Georgetown University	0	0	0	33	33	0	4	39	31	109
Howard University	1	2	0	8	8	0	20	18	26	91
Florida, total	30	23	53	156	112	44	198	101	1,054	1,864
Barry University	0	0	0	0	0	0	1	0	15	16
FL Agricultural and Mechanical U	0	0	0	6	6	0	0	0	1	8
Florida Atlantic University	0	0	0	0	0	0	5	3	22	42
Florida Institute of Technology	1	3	2	3	3	0	0	0	3	25
Florida International University	0	0	1	4	4	0	6	11	33	58
Florida State University	17	6	5	10	9	1	23	29	154	261
Nova Southeastern University	1	0	27	1	1	0	77	6	478	590
University of Central Florida	0	2	5	0	0	0	4	0	19	66
University of Florida	2	10	8	92	50	42	27	36	103	394
University of Miami	7	1	0	27	26	1	37	8	38	144
University of Sarasota	0	0	1	0	0	0	3	0	133	137
University of South Florida	2	1	4	13	13	0	15	8	55	123
Georgia, total	10	17	15	151	125	26	88	56	352	935
Clark Atlanta University	0	0	0	4	4	0	0	7	24	38
Emory University	0	3	0	53	53	0	10	13	63	157
Georgia Inst of Tech	7	7	13	8	8	0	7	0	7	230
Georgia Southern University	0	0	0	0	0	0	0	0	17	17
Georgia State University	0	1	2	6	6	0	21	18	71	125
Inst of Paper Science & Tech	0	0	0	1	0	1	0	0	0	3
Medical College of Georgia	0	0	0	10	10	0	0	0	3	13
University of Georgia	3	6	0	69	44	25	50	28	167	352
Hawaii, total	6	3	0	23	19	4	9	50	42	152
University of Hawaii at Manoa	6	3	0	23	19	4	9	50	42	152
Idaho, total	1	3	1	29	13	16	3	6	39	99
Idaho State University	0	0	0	5	5	0	1	2	10	20
University of Idaho	1	3	1	24	8	16	2	4	29	79

See explanatory information, if any, and SOURCE at end of table.

Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	S&E rank*	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
Illinois, total	5	1,345	299	29	52	82	51	85	155	75	80	0
De Paul University	201	25	0	0	0	0	0	0	0	0	0	0
Finch U Hlth Sci/Chgo Med Sch	217	21	0	0	0	0	0	0	1	1	0	0
Illinois Institute Technology	107	76	37	11	8	11	4	3	6	4	2	0
Illinois State University	280	7	0	0	0	0	0	0	0	0	0	0
Inst for Clinical Social Work	340	0	0	0	0	0	0	0	0	0	0	0
Loyola University of Chicago	135	52	0	0	0	0	0	0	1	0	1	0
Lutheran Sch Theology at Chicago	340	0	0	0	0	0	0	0	0	0	0	0
Northern Illinois University	190	28	0	0	0	0	0	0	3	0	3	0
Northwestern University	22	264	91	8	11	21	15	36	31	8	23	0
Roosevelt University	340	0	0	0	0	0	0	0	0	0	0	0
Rush University	252	13	0	0	0	0	0	0	2	2	0	0
Southern Illinois U Carbondale	135	52	5	0	2	2	0	1	1	1	0	0
Southern Illinois U Edwardsville	340	0	0	0	0	0	0	0	0	0	0	0
University of Chicago	27	248	0	0	0	0	0	0	44	26	18	0
U of Illinois Chicago	68	129	25	2	4	3	12	4	15	5	10	0
U of Illinois Urbana-Champaign	5	430	141	8	27	45	20	41	51	28	23	0
Indiana, total	11	702	149	19	24	39	31	36	125	36	85	4
Ball State University	246	14	0	0	0	0	0	0	0	0	0	0
Indiana State University	236	17	0	0	0	0	0	0	1	0	0	1
Indiana U Bloomington	36	203	0	0	0	0	0	0	34	8	24	2
Indiana U Purdue U Indianapolis	340	0	0	0	0	0	0	0	0	0	0	0
Purdue University	12	355	122	10	23	33	24	32	66	15	50	1
University of Notre Dame	74	113	27	9	1	6	7	4	24	13	11	0
Iowa, total	24	358	74	14	11	10	19	20	44	10	34	0
Drake University	340	0	0	0	0	0	0	0	0	0	0	0
Iowa State University	38	200	47	7	5	9	11	15	25	3	22	0
Maharishi U of Management	291	5	0	0	0	0	0	0	0	0	0	0
University of Iowa	58	153	27	7	6	1	8	5	19	7	12	0
University of Northern Iowa	340	0	0	0	0	0	0	0	0	0	0	0
Kansas, total	30	245	29	6	2	8	3	10	43	14	29	0
Kansas State University	89	92	9	4	0	1	1	3	14	7	7	0
University of Kansas	67	134	10	2	2	3	1	2	27	7	20	0
Wichita State University	228	19	10	0	0	4	1	5	2	0	2	0
Kentucky, total	33	211	33	10	2	8	4	9	18	3	15	0
Southern Baptist Theological Sem	340	0	0	0	0	0	0	0	0	0	0	0
Spalding University	340	0	0	0	0	0	0	0	0	0	0	0
University of Kentucky	50	165	21	6	2	4	4	5	13	3	10	0
University of Louisville	143	46	12	4	0	4	0	4	5	0	5	0
Louisiana, total	25	356	60	9	14	15	3	19	45	13	31	1
Grambling State University	340	0	0	0	0	0	0	0	0	0	0	0
LA St U & A&M College	45	172	28	5	10	6	0	7	25	9	16	0
LA St U Medical Center	252	13	0	0	0	0	0	0	0	0	0	0
LA St U Shreveport	267	10	0	0	0	0	0	0	0	0	0	0
Louisiana Tech University	257	12	9	0	1	2	2	4	0	0	0	0
New Orleans Baptist Theol Sem	288	6	0	0	0	0	0	0	0	0	0	0
Southern U A&M Col Baton Rouge	340	0	0	0	0	0	0	0	0	0	0	0
Tulane University	97	83	12	4	0	2	1	5	9	4	5	0
University of New Orleans	164	37	7	0	3	1	0	3	11	0	10	1
Univ of Louisiana at Lafayette	222	20	4	0	0	4	0	0	0	0	0	0
Univ of Louisiana at Monroe	309	3	0	0	0	0	0	0	0	0	0	0
Maine, total	48	41	6	1	0	1	1	3	13	5	6	2
University of Maine	156	41	6	1	0	1	1	3	13	5	6	2

See explanatory information, if any, and SOURCE at end of table.

Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	Earth, atmos., & ocean sciences	Mathematics	Computer sciences	Biological & agricultural sciences			Psychology	Social sciences	Non-S&E, total	Grand total, all fields
				Total	Biological	Agricultural				
Illinois, total	17	74	60	302	274	28	201	237	816	2,161
De Paul University	0	0	6	0	0	0	19	0	6	31
Finch U Hlth Sci/Chgo Med Sch	0	0	0	10	10	0	10	0	2	23
Illinois Institute Technology	0	0	19	6	6	0	8	0	2	78
Illinois State University	0	0	0	4	4	0	3	0	36	43
Inst for Clinical Social Work	0	0	0	0	0	0	0	0	5	5
Loyola University of Chicago	0	0	0	20	20	0	25	6	111	163
Lutheran Sch Theology at Chicago	0	0	0	0	0	0	0	0	9	9
Northern Illinois University	1	2	0	5	5	0	10	7	76	104
Northwestern University	5	14	4	49	49	0	28	42	96	360
Roosevelt University	0	0	0	0	0	0	0	0	10	10
Rush University	0	0	0	11	11	0	0	0	9	22
Southern Illinois U Carbondale	1	3	0	13	12	1	17	12	67	119
Southern Illinois U Edwardsville	0	0	0	0	0	0	0	0	2	2
University of Chicago	8	23	1	47	47	0	20	105	143	391
U of Illinois Chicago	0	12	1	48	48	0	18	10	72	201
U of Illinois Urbana-Champaign	2	20	29	89	62	27	43	55	170	600
Indiana, total	17	25	23	161	134	27	77	125	467	1,169
Ball State University	0	0	0	1	1	0	11	2	38	52
Indiana State University	1	0	0	3	3	0	7	5	36	53
Indiana U Bloomington	9	11	11	53	52	1	21	64	237	440
Indiana U Purdue U Indianapolis	0	0	0	0	0	0	0	0	8	8
Purdue University	5	10	10	89	63	26	23	30	115	470
University of Notre Dame	2	4	2	15	15	0	15	24	33	146
Iowa, total	10	26	2	132	92	40	29	41	208	566
Drake University	0	0	0	0	0	0	0	0	1	1
Iowa State University	7	15	0	76	36	40	12	18	38	238
Maharishi U of Management	0	0	0	0	0	0	4	1	1	6
University of Iowa	3	11	2	56	56	0	13	22	161	314
University of Northern Iowa	0	0	0	0	0	0	0	0	7	7
Kansas, total	7	13	3	59	41	18	54	37	170	415
Kansas State University	1	9	1	34	16	18	10	14	40	132
University of Kansas	6	4	2	24	24	0	38	23	123	257
Wichita State University	0	0	0	1	1	0	6	0	7	26
Kentucky, total	2	11	2	76	63	13	31	38	139	350
Southern Baptist Theological Sem	0	0	0	0	0	0	0	0	13	13
Spalding University	0	0	0	0	0	0	0	0	11	11
University of Kentucky	2	11	2	59	46	13	26	31	84	249
University of Louisville	0	0	0	17	17	0	5	7	31	77
Louisiana, total	7	19	14	108	79	29	45	58	253	609
Grambling State University	0	0	0	0	0	0	0	0	15	15
LA St U & A&M College	5	6	6	47	18	29	23	32	103	275
LA St U Medical Center	0	0	0	13	13	0	0	0	10	23
LA St U Shreveport	0	0	0	10	10	0	0	0	0	10
Louisiana Tech University	0	1	0	0	0	0	1	1	11	23
New Orleans Baptist Theol Sem	0	0	0	0	0	0	6	0	22	28
Southern U A&M Col Baton Rouge	0	0	0	0	0	0	0	0	2	2
Tulane University	2	4	5	31	31	0	7	13	42	125
University of New Orleans	0	0	0	0	0	0	7	12	26	63
Univ of Louisiana at Lafayette	0	8	3	5	5	0	0	0	13	33
Univ of Louisiana at Monroe	0	0	0	2	2	0	1	0	9	12
Maine, total	2	0	2	13	9	4	3	2	8	49
University of Maine	2	0	2	13	9	4	3	2	8	49

See explanatory information, if any, and SOURCE at end of table.

Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	S&E rank*	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
Maryland, total	13	635	139	16	15	46	13	49	72	36	36	0
Johns Hopkins University	32	221	45	4	7	10	2	22	21	7	14	0
Loyola College	291	5	0	0	0	0	0	0	0	0	0	0
Morgan State University	333	1	0	0	0	0	0	0	0	0	0	0
Peabody Inst of Johns Hopkins U	340	0	0	0	0	0	0	0	0	0	0	0
Uniformed Services U of Hlth Sci	257	12	0	0	0	0	0	0	0	0	0	0
U of Maryland Baltimore	158	40	0	0	0	0	0	0	2	0	2	0
U of Maryland Baltimore County	146	45	13	3	0	8	2	0	6	2	4	0
U of Maryland College Park	17	309	81	9	8	28	9	27	42	27	15	0
U of Maryland Eastern Shore	320	2	0	0	0	0	0	0	1	0	1	0
Massachusetts, total	4	1,452	318	64	13	108	41	92	230	119	110	1
American International College	320	2	0	0	0	0	0	0	0	0	0	0
Boston College	143	46	0	0	0	0	0	0	9	1	8	0
Boston University	61	150	20	0	0	9	1	10	19	13	6	0
Brandeis University	108	74	0	0	0	0	0	0	13	5	8	0
Clark University	207	23	0	0	0	0	0	0	4	1	3	0
Harvard University	16	322	8	0	1	1	0	6	57	32	25	0
MA Col Pharmacy & Allied Health	320	2	0	0	0	0	0	0	2	0	2	0
Massachusetts Institute of Tech	6	417	198	45	5	63	28	57	58	41	16	1
New England Conserv of Music	340	0	0	0	0	0	0	0	0	0	0	0
Northeastern University	121	59	20	0	0	13	2	5	11	4	7	0
Simmons College	340	0	0	0	0	0	0	0	0	0	0	0
Smith College	340	0	0	0	0	0	0	0	0	0	0	0
Springfield College	340	0	0	0	0	0	0	0	0	0	0	0
Tufts University	97	83	12	3	3	3	2	1	12	3	9	0
U of Massachusetts Amherst	41	184	37	11	3	10	5	8	32	10	22	0
U of Massachusetts Boston	217	21	0	0	0	0	0	0	0	0	0	0
U of Massachusetts Lowell	177	31	13	3	1	6	2	1	11	8	3	0
U of Massachusetts Worcester	217	21	0	0	0	0	0	0	0	0	0	0
Worcester Polytechnic Institute	236	17	10	2	0	3	1	4	2	1	1	0
Michigan, total	8	993	265	23	20	74	78	70	131	47	84	0
Andrews University	280	7	0	0	0	0	0	0	0	0	0	0
Central Michigan University	280	7	0	0	0	0	0	0	0	0	0	0
Eastern Michigan University	340	0	0	0	0	0	0	0	0	0	0	0
Michigan State University	21	269	36	7	4	11	11	3	39	13	26	0
Michigan Technological U	171	35	16	4	1	0	10	1	8	3	5	0
Oakland University	280	7	4	0	0	0	0	4	0	0	0	0
University of Detroit Mercy	240	16	3	1	0	2	0	0	1	0	1	0
University of Michigan Ann Arbor	3	463	179	10	10	59	44	56	57	27	30	0
Wayne State University	59	152	26	1	5	2	12	6	25	3	22	0
Western Michigan University	164	37	1	0	0	0	1	0	1	1	0	0
Minnesota, total	18	456	92	31	6	19	11	25	61	24	37	0
Luther NW Theological Seminary	340	0	0	0	0	0	0	0	0	0	0	0
Mayo Sch Health-Related Sciences	228	19	0	0	0	0	0	0	0	0	0	0
U of Minnesota Twin Cities	7	400	91	31	6	19	11	24	61	24	37	0
University of St Thomas	340	0	0	0	0	0	0	0	0	0	0	0
Walden University	164	37	1	0	0	0	0	1	0	0	0	0
Mississippi, total	35	168	19	4	0	1	3	11	23	1	22	0
Delta State University	340	0	0	0	0	0	0	0	0	0	0	0
Jackson State University	297	4	0	0	0	0	0	0	0	0	0	0
Mississippi State University	102	80	13	1	0	0	2	10	4	0	4	0
Reformed Theological Sem	340	0	0	0	0	0	0	0	0	0	0	0
U of Mississippi	201	25	3	0	0	1	1	1	6	1	5	0
U of Mississippi Med Ctr	263	11	0	0	0	0	0	0	0	0	0	0
U of Southern Mississippi	140	48	3	3	0	0	0	0	13	0	13	0

See explanatory information, if any, and SOURCE at end of table.

Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	Earth, atmos., & ocean sciences	Mathematics	Computer sciences	Biological & agricultural sciences			Psychology	Social sciences	Non-S&E, total	Grand total, all fields
				Total	Biological	Agricultural				
Maryland, total	22	30	24	187	184	3	56	105	319	954
Johns Hopkins University	6	11	7	92	92	0	2	37	111	332
Loyola College	0	0	0	0	0	0	5	0	1	6
Morgan State University	0	0	0	0	0	0	0	1	9	10
Peabody Inst of Johns Hopkins U	0	0	0	0	0	0	0	0	9	9
Uniformed Services U of Hlth Sci	0	0	0	9	9	0	3	0	3	15
U of Maryland Baltimore	0	0	0	38	38	0	0	0	33	73
U of Maryland Baltimore County	0	2	3	6	6	0	10	5	2	47
U of Maryland College Park	15	17	14	42	39	3	36	62	151	460
U of Maryland Eastern Shore	1	0	0	0	0	0	0	0	0	2
Massachusetts, total	37	48	53	361	347	14	96	309	652	2,104
American International College	0	0	0	0	0	0	2	0	3	5
Boston College	0	0	0	9	9	0	16	12	68	114
Boston University	1	4	3	48	48	0	16	39	111	261
Brandeis University	0	2	3	29	29	0	4	23	34	108
Clark University	0	0	0	4	4	0	7	8	7	30
Harvard University	6	13	1	110	110	0	11	116	225	547
MA Col Pharmacy & Allied Health	0	0	0	0	0	0	0	0	0	2
Massachusetts Institute of Tech	28	19	25	36	36	0	1	52	43	460
New England Conserv of Music	0	0	0	0	0	0	0	0	2	2
Northeastern University	0	6	0	12	12	0	1	9	7	66
Simmons College	0	0	0	0	0	0	0	0	5	5
Smith College	0	0	0	0	0	0	0	0	7	7
Springfield College	0	0	0	0	0	0	0	0	2	2
Tufts University	0	0	2	45	45	0	4	8	15	98
U of Massachusetts Amherst	0	3	11	43	29	14	22	36	92	276
U of Massachusetts Boston	2	0	0	2	2	0	12	5	10	31
U of Massachusetts Lowell	0	0	6	0	0	0	0	1	21	52
U of Massachusetts Worcester	0	0	0	21	21	0	0	0	0	21
Worcester Polytechnic Institute	0	1	2	2	2	0	0	0	0	17
Michigan, total	18	35	31	216	179	37	127	170	485	1,478
Andrews University	0	0	0	0	0	0	7	0	14	21
Central Michigan University	0	3	0	0	0	0	4	0	1	8
Eastern Michigan University	0	0	0	0	0	0	0	0	11	11
Michigan State University	2	8	7	92	62	30	25	60	160	429
Michigan Technological U	1	0	0	9	5	4	1	0	8	43
Oakland University	0	0	0	3	3	0	0	0	4	11
University of Detroit Mercy	0	0	0	0	0	0	12	0	0	16
University of Michigan Ann Arbor	15	19	19	71	68	3	36	67	190	653
Wayne State University	0	3	5	39	39	0	25	29	80	232
Western Michigan University	0	2	0	2	2	0	17	14	17	54
Minnesota, total	3	17	15	118	84	34	69	81	371	827
Luther NW Theological Seminary	0	0	0	0	0	0	0	0	4	4
Mayo Sch Health-Related Sciences	0	0	0	19	19	0	0	0	0	19
U of Minnesota Twin Cities	3	17	15	99	65	34	37	77	284	684
University of St Thomas	0	0	0	0	0	0	0	0	21	21
Walden University	0	0	0	0	0	0	32	4	62	99
Mississippi, total	4	9	5	61	31	30	36	11	183	351
Delta State University	0	0	0	0	0	0	0	0	2	2
Jackson State University	3	0	0	0	0	0	0	1	12	16
Mississippi State University	0	4	4	46	16	30	3	6	48	128
Reformed Theological Sem	0	0	0	0	0	0	0	0	5	5
U of Mississippi	0	1	0	0	0	0	11	4	55	80
U of Mississippi Med Ctr	0	0	0	11	11	0	0	0	1	12
U of Southern Mississippi	1	4	1	4	4	0	22	0	60	108

See explanatory information, if any, and SOURCE at end of table.

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Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	S&E rank*	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
Missouri, total	19	452	85	6	5	21	10	43	52	21	31	0
Concordia Seminary	340	0	0	0	0	0	0	0	0	0	0	0
St Louis University	139	49	0	0	0	0	0	0	1	1	0	0
University of Missouri Columbia	56	155	33	2	2	9	5	15	9	3	6	0
University of Missouri Kansas City	210	22	1	0	0	0	0	1	6	3	3	0
University of Missouri Rolla	146	45	25	2	1	4	4	14	13	6	7	0
University of Missouri St Louis	194	27	0	0	0	0	0	0	7	0	7	0
Washington University	57	154	26	2	2	8	1	13	16	8	8	0
Montana, total	47	42	2	0	2	0	0	0	9	2	7	0
Montana St University Bozeman	222	20	2	0	2	0	0	0	5	2	3	0
University of Montana	210	22	0	0	0	0	0	0	4	0	4	0
Nebraska, total	34	175	8	2	2	1	0	3	14	3	11	0
Creighton University	291	5	0	0	0	0	0	0	0	0	0	0
U of Nebraska at Lincoln	66	136	8	2	2	1	0	3	13	3	10	0
U of Nebraska at Omaha	280	7	0	0	0	0	0	0	0	0	0	0
U of Nebraska Medical Center	194	27	0	0	0	0	0	0	1	0	1	0
Nevada, total	41	77	8	0	0	4	2	2	13	4	9	0
University of Nevada-Las Vegas	257	12	4	0	0	3	1	0	0	0	0	0
University of Nevada-Reno	115	65	4	0	0	1	1	2	13	4	9	0
New Hampshire, total	44	72	4	0	0	0	1	3	16	5	9	2
Dartmouth College	164	37	3	0	0	0	0	3	9	3	5	1
University of New Hampshire	171	35	1	0	0	0	1	0	7	2	4	1
New Jersey, total	14	597	133	24	13	43	20	33	88	44	44	0
Drew University	297	4	0	0	0	0	0	0	0	0	0	0
Fairleigh Dickinson U	267	10	0	0	0	0	0	0	0	0	0	0
New Jersey Institute Technology	146	45	28	5	5	9	6	3	4	2	2	0
Princeton Theological Seminary	340	0	0	0	0	0	0	0	0	0	0	0
Princeton University	34	210	47	10	5	19	7	6	41	26	15	0
Rutgers St U NJ New Brunswick	29	233	47	7	3	10	6	21	30	13	17	0
Rutgers St U NJ Newark Campus	179	30	0	0	0	0	0	0	4	1	3	0
Seton Hall University	263	11	0	0	0	0	0	0	5	0	5	0
Stevens Institute of Technology	206	24	11	2	0	5	1	3	4	2	2	0
U of Medicine & Dentistry of NJ	179	30	0	0	0	0	0	0	0	0	0	0
New Mexico, total	37	158	39	8	3	15	5	8	28	20	8	0
New Mexico Inst Mining & Tech	263	11	7	6	0	0	0	1	2	2	0	0
New Mexico State University	124	57	14	1	3	4	4	2	16	12	4	0
U of New Mexico, All Campuses	93	90	18	1	0	11	1	5	10	6	4	0
New York, total	2	2,217	324	35	28	113	62	86	301	155	145	1
Adelphi University	169	36	0	0	0	0	0	0	0	0	0	0
Albany Medical College	309	3	0	0	0	0	0	0	0	0	0	0
Alfred University	263	11	5	0	0	0	0	5	0	0	0	0
Clarkson University	228	19	16	3	2	4	4	3	3	0	3	0
Columbia U in City of New York	20	274	32	4	1	13	3	11	51	24	27	0
Cornell U Endowed Colleges	13	354	78	9	8	32	6	23	50	31	19	0
Cornell U Medical Campus	179	30	0	0	0	0	0	0	0	0	0	0
CUNY Grad School & U Center	53	160	12	2	1	4	2	3	22	14	8	0
Fordham University	161	39	0	0	0	0	0	0	0	0	0	0
Hofstra University	175	33	0	0	0	0	0	0	0	0	0	0
Jewish Theological Sem America	340	0	0	0	0	0	0	0	0	0	0	0
Juilliard School	340	0	0	0	0	0	0	0	0	0	0	0
Long Island University Brooklyn	240	16	0	0	0	0	0	0	0	0	0	0
New School University	140	48	0	0	0	0	0	0	0	0	0	0
New York Medical College	246	14	0	0	0	0	0	0	0	0	0	0
New York University	44	176	2	0	1	0	1	0	12	3	9	0

See explanatory information, if any, and SOURCE at end of table.

Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	Earth, atmos., & ocean sciences	Mathematics	Computer sciences	Biological & agricultural sciences			Psychology	Social sciences	Non-S&E, total	Grand total, all fields
				Total	Biological	Agricultural				
Missouri, total	10	16	6	138	121	17	86	59	270	722
Concordia Seminary	0	0	0	0	0	0	0	0	2	2
St Louis University	3	1	0	13	13	0	25	6	68	117
University of Missouri Columbia	1	10	1	46	29	17	29	26	103	258
University of Missouri Kansas City	0	1	1	5	5	0	6	2	41	63
University of Missouri Rolla	4	0	1	2	2	0	0	0	0	45
University of Missouri St Louis	0	0	0	5	5	0	11	4	10	37
Washington University	2	4	3	67	67	0	15	21	46	200
Montana, total	0	1	0	24	17	7	4	2	23	65
Montana St University Bozeman	0	1	0	10	7	3	0	2	12	32
University of Montana	0	0	0	14	10	4	4	0	11	33
Nebraska, total	4	8	4	75	46	29	26	36	122	297
Creighton University	0	0	0	5	5	0	0	0	0	5
U of Nebraska at Lincoln	4	8	4	44	15	29	26	29	115	251
U of Nebraska at Omaha	0	0	0	0	0	0	0	7	1	8
U of Nebraska Medical Center	0	0	0	26	26	0	0	0	6	33
Nevada, total	11	0	0	21	21	0	15	9	38	115
University of Nevada-Las Vegas	0	0	0	2	2	0	0	6	19	31
University of Nevada-Reno	11	0	0	19	19	0	15	3	19	84
New Hampshire, total	4	9	2	29	28	1	5	3	15	87
Dartmouth College	2	4	1	16	16	0	2	0	1	38
University of New Hampshire	2	5	1	13	12	1	3	3	14	49
New Jersey, total	13	36	33	149	132	17	38	107	286	883
Drew University	0	0	0	0	0	0	1	3	21	25
Fairleigh Dickinson U	0	0	0	0	0	0	10	0	0	10
New Jersey Institute Technology	1	4	8	0	0	0	0	0	0	45
Princeton Theological Seminary	0	0	0	0	0	0	0	0	20	20
Princeton University	5	13	3	41	41	0	6	54	71	281
Rutgers St U NJ New Brunswick	7	15	13	69	52	17	13	39	108	341
Rutgers St U NJ Newark Campus	0	3	2	9	9	0	1	11	27	57
Seton Hall University	0	0	0	0	0	0	6	0	38	49
Stevens Institute of Technology	0	1	7	0	0	0	1	0	1	25
U of Medicine & Dentistry of NJ	0	0	0	30	30	0	0	0	0	30
New Mexico, total	5	4	3	35	19	16	19	25	114	272
New Mexico Inst Mining & Tech	2	0	0	0	0	0	0	0	0	11
New Mexico State University	0	1	1	18	2	16	7	0	21	78
U of New Mexico, All Campuses	3	3	2	17	17	0	12	25	93	183
New York, total	59	98	73	552	504	48	362	448	1,281	3,498
Adelphi University	0	2	0	0	0	0	34	0	4	40
Albany Medical College	0	0	0	3	3	0	0	0	0	3
Alfred University	0	0	0	0	0	0	6	0	3	14
Clarkson University	0	0	0	0	0	0	0	0	0	19
Columbia U in City of New York	16	18	2	57	57	0	29	69	183	457
Cornell U Endowed Colleges	9	15	6	115	75	40	7	74	95	449
Cornell U Medical Campus	0	0	0	30	30	0	0	0	0	30
CUNY Grad School & U Center	4	10	8	29	29	0	39	36	108	268
Fordham University	0	0	0	1	1	0	22	16	56	95
Hofstra University	0	0	0	0	0	0	33	0	11	44
Jewish Theological Sem America	0	0	0	0	0	0	0	0	6	6
Juilliard School	0	0	0	0	0	0	0	0	8	8
Long Island University Brooklyn	0	0	0	0	0	0	16	0	0	16
New School University	0	0	0	0	0	0	18	30	4	52
New York Medical College	0	0	0	14	14	0	0	0	0	14
New York University	1	23	12	50	50	0	27	49	214	390

See explanatory information, if any, and SOURCE at end of table.

Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	S&E rank*	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
New York, continued:												
Pace University New York Campus	333	1	0	0	0	0	0	0	0	0	0	0
Polytechnic University	174	34	25	6	6	10	2	1	2	0	2	0
Rensselaer Polytechnic Institute	97	83	57	5	4	13	15	20	14	7	7	0
Rockefeller University	228	19	0	0	0	0	0	0	1	1	0	0
St John's U (Jamaica, NY)	184	29	0	0	0	0	0	0	2	0	2	0
SUNY at Albany	83	105	1	0	0	0	0	1	16	15	1	0
SUNY at Binghamton	127	55	4	0	0	2	0	2	5	0	5	0
SUNY at Buffalo	47	171	35	3	4	10	13	5	24	8	16	0
SUNY at Stony Brook	43	183	21	0	0	8	7	6	42	19	23	0
SUNY Col Environ Sci & Forestry	236	17	1	0	0	0	0	1	3	0	3	0
SUNY Health Sci Ctr Brooklyn	257	12	0	0	0	0	0	0	0	0	0	0
SUNY Health Sci Ctr Syracuse	257	12	0	0	0	0	0	0	0	0	0	0
Syracuse University	91	91	13	0	1	6	4	2	13	6	7	0
Teachers College Columbia U	340	0	0	0	0	0	0	0	0	0	0	0
Union College	320	2	1	0	0	0	0	1	0	0	0	0
Union Theological Seminary	340	0	0	0	0	0	0	0	0	0	0	0
University of Rochester	63	138	20	3	0	10	5	2	40	27	13	0
Yeshiva University	135	52	1	0	0	1	0	0	1	0	0	1
North Carolina, total	10	715	128	8	12	32	19	57	85	28	55	2
Duke University	47	171	34	0	3	8	8	15	19	8	11	0
East Carolina University	280	7	0	0	0	0	0	0	0	0	0	0
North Carolina A&T State U	333	1	1	0	0	1	0	0	0	0	0	0
North Carolina State U Raleigh	25	262	79	8	5	23	9	34	27	10	15	2
U of North Carolina Chapel Hill	30	224	11	0	4	0	0	7	29	6	23	0
U of North Carolina Charlotte	320	2	2	0	0	0	2	0	0	0	0	0
U of North Carolina Greensboro	222	20	0	0	0	0	0	0	0	0	0	0
Wake Forest University	190	28	1	0	0	0	0	1	10	4	6	0
North Dakota, total	48	41	2	0	0	1	0	1	10	4	6	0
North Dakota State University	228	19	2	0	0	1	0	1	4	1	3	0
University of North Dakota	210	22	0	0	0	0	0	0	6	3	3	0
Ohio, total	7	1,057	265	47	10	64	37	107	167	65	100	2
Air Force Institute Technology	267	10	7	0	0	2	1	4	1	1	0	0
Bowling Green State University	143	46	0	0	0	0	0	0	4	1	2	1
Case Western Reserve University	63	138	46	14	0	9	2	21	16	6	10	0
Cleveland State University	228	19	9	0	2	1	1	5	5	0	5	0
Hebrew Union Col-Jewish Inst Rel	340	0	0	0	0	0	0	0	0	0	0	0
Kent State University Geauga	114	66	0	0	0	0	0	0	11	9	2	0
Medical College of Ohio	210	22	0	0	0	0	0	0	0	0	0	0
Miami University Oxford Campus	184	29	0	0	0	0	0	0	8	0	8	0
Ohio State University	11	367	79	7	3	18	17	34	46	21	24	1
Ohio University	146	45	14	4	1	7	1	1	7	5	2	0
University of Akron	91	91	30	17	1	3	5	4	34	8	26	0
University of Cincinnati	62	139	50	2	3	13	3	29	23	7	16	0
University of Dayton	207	23	19	0	0	9	5	5	4	4	0	0
University of Toledo	158	40	9	3	0	1	2	3	8	3	5	0
Wright State University	210	22	2	0	0	1	0	1	0	0	0	0
Youngstown State University	340	0	0	0	0	0	0	0	0	0	0	0
Oklahoma, total	31	236	33	13	3	5	6	6	26	11	15	0
Oklahoma State University	76	110	14	4	2	3	5	0	12	4	8	0
University of Oklahoma Norman	84	104	13	3	1	2	1	6	14	7	7	0
University of Tulsa	210	22	6	6	0	0	0	0	0	0	0	0
Oregon, total	29	257	29	0	5	16	2	6	36	17	19	0
Oregon Grad Inst Science & Tech	236	17	14	0	2	10	0	2	1	0	1	0
Oregon Health Sciences U	179	30	0	0	0	0	0	0	0	0	0	0
Oregon State University	73	120	12	0	3	4	2	3	16	7	9	0
Portland State University	228	19	3	0	0	2	0	1	2	1	1	0
University of Oregon	110	71	0	0	0	0	0	0	17	9	8	0

See explanatory information, if any, and SOURCE at end of table.

Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	Earth, atmos., & ocean sciences	Mathematics	Computer sciences	Biological & agricultural sciences			Psychology	Social sciences	Non-S&E, total	Grand total, all fields
				Total	Biological	Agricultural				
New York, continued:										
Pace University New York Campus	0	0	1	0	0	0	0	0	4	5
Polytechnic University	0	2	5	0	0	0	0	0	0	34
Rensselaer Polytechnic Institute	2	1	1	3	3	0	1	4	9	92
Rockefeller University	0	0	0	18	18	0	0	0	0	19
St John's U (Jamaica, NY)	0	0	0	7	7	0	19	1	21	50
SUNY at Albany	8	2	9	9	9	0	31	29	54	159
SUNY at Binghamton	2	4	4	5	5	0	9	22	45	100
SUNY at Buffalo	0	3	5	50	50	0	23	31	131	302
SUNY at Stony Brook	10	12	2	49	49	0	22	25	58	241
SUNY Col Environ Sci & Forestry	3	0	0	10	3	7	0	0	0	17
SUNY Health Sci Ctr Brooklyn	0	0	0	12	12	0	0	0	1	13
SUNY Health Sci Ctr Syracuse	0	0	0	12	12	0	0	0	0	12
Syracuse University	1	1	13	1	1	0	11	38	51	142
Teachers College Columbia U	0	0	0	0	0	0	0	0	124	124
Union College	0	0	0	0	0	0	0	1	0	2
Union Theological Seminary	0	0	0	0	0	0	0	0	10	10
University of Rochester	3	5	5	38	37	1	4	23	73	211
Yeshiva University	0	0	0	39	39	0	11	0	8	60
North Carolina, total	24	34	15	250	217	33	52	127	384	1,099
Duke University	1	7	3	60	59	1	9	38	59	230
East Carolina University	0	0	0	7	7	0	0	0	3	10
North Carolina A&T State U	0	0	0	0	0	0	0	0	0	1
North Carolina State U Raleigh	9	19	3	90	58	32	7	28	52	314
U of North Carolina Chapel Hill	14	8	9	72	72	0	21	60	200	424
U of North Carolina Charlotte	0	0	0	0	0	0	0	0	2	4
U of North Carolina Greensboro	0	0	0	4	4	0	15	1	68	88
Wake Forest University	0	0	0	17	17	0	0	0	0	28
North Dakota, total	0	3	0	14	8	6	12	0	17	58
North Dakota State University	0	3	0	10	4	6	0	0	0	19
University of North Dakota	0	0	0	4	4	0	12	0	17	39
Ohio, total	17	30	18	267	248	19	174	119	738	1,795
Air Force Institute Technology	0	1	1	0	0	0	0	0	0	10
Bowling Green State University	0	5	0	3	3	0	22	12	47	93
Case Western Reserve University	1	1	2	55	54	1	8	9	55	193
Cleveland State University	0	0	1	4	4	0	0	0	20	39
Hebrew Union Col-Jewish Inst Rel	0	0	0	0	0	0	0	0	5	5
Kent State University Geauga	3	2	1	12	12	0	29	8	65	131
Medical College of Ohio	0	0	0	22	22	0	0	0	2	24
Miami University Oxford Campus	0	0	0	11	11	0	7	3	21	50
Ohio State University	12	15	10	100	82	18	39	66	242	609
Ohio University	0	2	0	5	5	0	16	1	75	120
University of Akron	0	0	0	3	3	0	17	7	23	114
University of Cincinnati	1	1	2	39	39	0	10	13	101	240
University of Dayton	0	0	0	0	0	0	0	0	8	31
University of Toledo	0	3	1	9	9	0	10	0	68	108
Wright State University	0	0	0	4	4	0	16	0	0	22
Youngstown State University	0	0	0	0	0	0	0	0	6	6
Oklahoma, total	24	6	7	56	42	14	50	34	146	382
Oklahoma State University	10	2	2	33	19	14	20	17	76	186
University of Oklahoma Norman	12	4	4	23	23	0	17	17	66	170
University of Tulsa	2	0	1	0	0	0	13	0	4	26
Oregon, total	22	17	4	104	75	29	17	28	125	382
Oregon Grad Inst Science & Tech	0	0	1	1	1	0	0	0	0	17
Oregon Health Sciences U	0	0	0	30	30	0	0	0	7	37
Oregon State University	15	10	1	57	28	29	3	6	39	159
Portland State University	1	1	0	3	3	0	3	6	12	31
University of Oregon	6	6	2	13	13	0	11	16	67	138

See explanatory information, if any, and SOURCE at end of table.

Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	S&E rank*	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
Pennsylvania, total	6	1,240	316	55	29	81	49	102	145	55	88	2
Allegheny Univ of the Hlth Sci	184	29	0	0	0	0	0	0	0	0	0	0
Bryn Mawr College	257	12	0	0	0	0	0	0	0	0	0	0
Carnegie Mellon University	63	138	82	16	4	35	6	21	14	3	10	1
Drexel University	194	27	17	1	1	5	3	7	1	0	1	0
Duquesne University	184	29	0	0	0	0	0	0	4	0	4	0
Indiana University of PA	222	20	0	0	0	0	0	0	0	0	0	0
Lehigh University	100	81	43	8	6	11	12	6	10	7	3	0
Pennsylvania State U	14	341	110	8	14	19	23	46	32	20	11	1
Philadelphia Col Pharmacy & Sci	288	6	0	0	0	0	0	0	4	0	4	0
Temple University	85	102	1	0	0	1	0	0	11	3	8	0
Thomas Jefferson University	240	16	0	0	0	0	0	0	1	0	1	0
University of Pennsylvania	22	264	33	11	0	5	3	14	39	11	28	0
University of Pittsburgh	45	172	30	11	4	5	2	8	27	11	16	0
Villanova University	309	3	0	0	0	0	0	0	2	0	2	0
Westminster Theological Seminary	340	0	0	0	0	0	0	0	0	0	0	0
Widener U Pennsylvania Campus	340	0	0	0	0	0	0	0	0	0	0	0
Rhode Island, total	36	167	23	3	2	8	7	3	32	14	18	0
Brown University	86	101	11	1	0	4	4	2	19	8	11	0
Providence College	340	0	0	0	0	0	0	0	0	0	0	0
Salve Regina University	333	1	0	0	0	0	0	0	0	0	0	0
University of Rhode Island	115	65	12	2	2	4	3	1	13	6	7	0
South Carolina, total	32	217	44	9	5	11	9	10	22	9	13	0
Clemson University	95	84	31	1	4	9	7	10	11	4	7	0
Medical U South Carolina	207	23	0	0	0	0	0	0	3	0	3	0
South Carolina State University	340	0	0	0	0	0	0	0	0	0	0	0
U of South Carolina at Columbia	76	110	13	8	1	2	2	0	8	5	3	0
South Dakota, total	50	32	4	0	1	0	0	3	1	0	1	0
South Dakota Sch of Mines & Tech	297	4	4	0	1	0	0	3	0	0	0	0
South Dakota State University	246	14	0	0	0	0	0	0	1	0	1	0
University of South Dakota	246	14	0	0	0	0	0	0	0	0	0	0
Tennessee, total	23	375	64	10	8	17	8	21	50	17	33	0
East Tennessee State University	309	3	0	0	0	0	0	0	0	0	0	0
Meharry Medical College	252	13	0	0	0	0	0	0	0	0	0	0
Mid-America Baptist Theol Sem	340	0	0	0	0	0	0	0	0	0	0	0
Middle Tennessee State U	320	2	0	0	0	0	0	0	2	0	2	0
Tennessee State University	320	2	0	0	0	0	0	0	0	0	0	0
Tennessee Technological U	297	4	4	1	0	1	2	0	0	0	0	0
University of Memphis	129	54	11	0	0	3	2	6	5	0	5	0
University of Tennessee Knoxville	51	164	30	9	4	1	4	12	30	10	20	0
University of Tennessee Memphis	201	25	0	0	0	0	0	0	2	0	2	0
Vanderbilt University	79	108	19	0	4	12	0	3	11	7	4	0
Texas, total	3	1,572	397	78	47	118	55	99	186	73	113	0
Baylor College of Medicine	134	53	0	0	0	0	0	0	0	0	0	0
Baylor University	273	9	0	0	0	0	0	0	2	0	2	0
Dallas Theological Seminary	340	0	0	0	0	0	0	0	0	0	0	0
Lamar University	340	0	0	0	0	0	0	0	0	0	0	0
Rice University	87	95	30	9	0	7	8	6	17	6	11	0
Sam Houston State University	309	3	0	0	0	0	0	0	0	0	0	0
Southern Methodist University	176	32	8	0	0	4	1	3	1	1	0	0
Southwestern Baptist Theol Sem	297	4	0	0	0	0	0	0	0	0	0	0
St Mary's University	320	2	0	0	0	0	0	0	0	0	0	0
Stephen F Austin State U	320	2	0	0	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	Earth, atmos., & ocean sciences	Mathematics	Computer sciences	Biological & agricultural sciences			Psychology	Social sciences	Non-S&E, total	Grand total, all fields
				Total	Biological	Agricultural				
Pennsylvania, total	22	57	46	280	265	15	195	178	857	2,097
Allegheny Univ of the Hlth Sci	0	0	0	11	11	0	18	0	0	29
Bryn Mawr College	0	0	0	0	0	0	9	3	9	21
Carnegie Mellon University	0	8	14	9	9	0	8	3	20	158
Drexel University	1	1	1	3	3	0	3	0	8	35
Duquesne University	0	1	0	0	0	0	24	0	19	48
Indiana University of PA	0	0	0	0	0	0	11	9	57	77
Lehigh University	3	4	3	6	6	0	10	2	19	100
Pennsylvania State U	10	18	5	86	71	15	35	45	200	541
Philadelphia Col Pharmacy & Sci	0	0	0	2	2	0	0	0	1	7
Temple University	0	6	1	26	26	0	40	17	168	270
Thomas Jefferson University	0	0	0	15	15	0	0	0	0	16
University of Pennsylvania	4	8	6	84	84	0	19	71	161	425
University of Pittsburgh	4	11	16	37	37	0	18	29	145	317
Villanova University	0	0	0	1	1	0	0	0	0	3
Westminster Theological Seminary	0	0	0	0	0	0	0	0	9	9
Widener U Pennsylvania Campus	0	0	0	0	0	0	0	0	41	41
Rhode Island, total	18	15	5	23	22	1	17	34	75	242
Brown University	6	11	4	17	17	0	3	30	48	149
Providence College	0	0	0	0	0	0	0	0	1	1
Salve Regina University	0	0	0	0	0	0	0	1	5	6
University of Rhode Island	12	4	1	6	5	1	14	3	21	86
South Carolina, total	9	10	4	70	58	12	24	34	184	401
Clemson University	1	4	0	29	17	12	2	6	25	109
Medical U South Carolina	0	0	0	20	20	0	0	0	4	27
South Carolina State University	0	0	0	0	0	0	0	0	22	22
U of South Carolina at Columbia	8	6	4	21	21	0	22	28	133	243
South Dakota, total	1	0	0	12	10	2	8	6	47	79
South Dakota Sch of Mines & Tech	0	0	0	0	0	0	0	0	0	4
South Dakota State University	1	0	0	6	4	2	0	6	0	14
University of South Dakota	0	0	0	6	6	0	8	0	47	61
Tennessee, total	4	16	9	119	112	7	73	40	306	681
East Tennessee State University	0	0	0	3	3	0	0	0	25	28
Meharry Medical College	0	0	0	13	13	0	0	0	0	13
Mid-America Baptist Theol Sem	0	0	0	0	0	0	0	0	4	4
Middle Tennessee State U	0	0	0	0	0	0	0	0	5	7
Tennessee State University	0	0	0	0	0	0	2	0	29	31
Tennessee Technological U	0	0	0	0	0	0	0	0	0	4
University of Memphis	1	4	3	3	3	0	27	0	55	109
University of Tennessee Knoxville	2	7	3	36	29	7	30	26	102	266
University of Tennessee Memphis	1	0	0	22	22	0	0	0	4	29
Vanderbilt University	0	5	3	42	42	0	14	14	82	190
Texas, total	56	56	64	440	387	53	190	183	960	2,532
Baylor College of Medicine	0	0	0	53	53	0	0	0	1	54
Baylor University	1	2	0	3	3	0	0	1	37	46
Dallas Theological Seminary	0	0	0	0	0	0	0	0	11	11
Lamar University	0	0	0	0	0	0	0	0	1	1
Rice University	5	11	6	12	12	0	5	9	16	111
Sam Houston State University	0	0	0	0	0	0	0	3	0	3
Southern Methodist University	2	3	5	0	0	0	5	8	5	37
Southwestern Baptist Theol Sem	0	0	0	0	0	0	4	0	50	54
St Mary's University	0	0	0	0	0	0	2	0	1	3
Stephen F Austin State U	0	0	0	2	0	2	0	0	0	2

See explanatory information, if any, and SOURCE at end of table.

Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	S&E rank*	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
Texas, continued:												
Texas A&M University	9	385	135	34	20	26	21	34	38	10	28	0
Texas A&M University Commerce	297	4	0	0	0	0	0	0	0	0	0	0
Texas A&M University Kingsville	340	0	0	0	0	0	0	0	0	0	0	0
Texas Christian University	277	8	0	0	0	0	0	0	2	1	1	0
Texas Southern University	340	0	0	0	0	0	0	0	0	0	0	0
Texas Tech University	104	78	18	4	1	4	3	6	4	1	3	0
Texas Woman's University	201	25	0	0	0	0	0	0	0	0	0	0
University of Dallas	297	4	0	0	0	0	0	0	0	0	0	0
University of Houston	80	107	31	7	3	8	2	11	25	6	19	0
U North TX	112	70	0	0	0	0	0	0	11	6	5	0
U North TX Hlth Sci Ctr Ft Worth	297	4	0	0	0	0	0	0	0	0	0	0
U Texas at Arlington	129	54	25	0	1	11	3	10	10	2	8	0
U Texas at Austin	8	391	131	24	20	48	17	22	60	29	31	0
U Texas at Dallas	126	56	9	0	0	9	0	0	12	7	5	0
U Texas at El Paso	244	15	9	0	2	1	0	6	0	0	0	0
U Texas Hlth Sci Ctr	115	65	1	0	0	0	0	1	1	1	0	0
U Texas Hlth Sci Ctr San Antonio	217	21	0	0	0	0	0	0	3	3	0	0
U Texas Med Branch Galveston	179	30	0	0	0	0	0	0	0	0	0	0
U Texas SW Med Ctr Dallas	127	55	0	0	0	0	0	0	0	0	0	0
Utah, total	28	272	59	15	8	6	3	27	40	9	31	0
Brigham Young University	124	57	8	6	1	1	0	0	8	2	6	0
University of Utah	55	156	43	9	3	3	3	25	28	6	22	0
Utah State University	121	59	8	0	4	2	0	2	4	1	3	0
Vermont, total	49	39	3	0	2	0	1	0	6	0	6	0
Middlebury College	340	0	0	0	0	0	0	0	0	0	0	0
University of Vermont	161	39	3	0	2	0	1	0	6	0	6	0
Virginia, total	12	666	164	19	15	43	22	65	68	29	39	0
College of William and Mary	171	35	2	0	0	0	0	2	10	9	1	0
George Mason University	95	84	9	0	0	5	0	4	1	1	0	0
Hampton University	291	5	0	0	0	0	0	0	5	5	0	0
Old Dominion University	151	43	14	0	0	3	4	7	4	4	0	0
Regent University	340	0	0	0	0	0	0	0	0	0	0	0
Union Theol Seminary (PSCE)	340	0	0	0	0	0	0	0	0	0	0	0
University of Virginia	39	199	51	11	3	13	3	21	21	8	13	0
Virginia Commonwealth University	94	86	2	0	0	0	0	2	10	0	10	0
Virginia Polytechnic Inst & St U	33	214	86	8	12	22	15	29	17	2	15	0

See explanatory information, if any, and SOURCE at end of table.

Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	Earth, atmos., & ocean sciences	Mathematics	Computer sciences	Biological & agricultural sciences			Psychology	Social sciences	Non-S&E, total	Grand total, all fields
				Total	Biological	Agricultural				
Texas, continued:										
Texas A&M University	18	15	14	110	72	38	21	34	122	507
Texas A&M University Commerce	0	0	0	0	0	0	4	0	41	45
Texas A&M University Kingsville	0	0	0	0	0	0	0	0	14	14
Texas Christian University	0	0	0	0	0	0	6	0	12	20
Texas Southern University	0	0	0	0	0	0	0	0	20	20
Texas Tech University	2	0	1	24	13	11	21	8	63	141
Texas Woman's University	0	0	0	7	6	1	13	5	67	92
University of Dallas	0	0	0	0	0	0	0	4	1	5
University of Houston	0	2	1	13	13	0	20	15	68	175
U North TX	1	5	15	6	6	0	22	10	90	160
U North TX Hlth Sci Ctr Ft Worth	0	0	0	4	4	0	0	0	2	6
U Texas at Arlington	0	4	3	3	3	0	0	9	24	78
U Texas at Austin	20	11	16	39	38	1	45	69	265	656
U Texas at Dallas	3	2	2	9	9	0	12	7	15	71
U Texas at El Paso	3	0	1	0	0	0	2	0	5	20
U Texas Hlth Sci Ctr	1	1	0	59	59	0	1	1	22	87
U Texas Hlth Sci Ctr San Antonio	0	0	0	18	18	0	0	0	3	24
U Texas Med Branch Galveston	0	0	0	30	30	0	0	0	4	34
U Texas SW Med Ctr Dallas	0	0	0	48	48	0	7	0	0	55
Utah, total	3	10	8	76	66	10	46	30	76	348
Brigham Young University	0	2	2	4	4	0	24	9	14	71
University of Utah	2	7	6	41	41	0	12	17	50	206
Utah State University	1	1	0	31	21	10	10	4	12	71
Vermont, total	0	2	0	16	16	0	12	0	26	65
Middlebury College	0	0	0	0	0	0	0	0	7	7
University of Vermont	0	2	0	16	16	0	12	0	19	58
Virginia, total	28	27	41	144	122	22	86	108	371	1,037
College of William and Mary	9	0	7	4	3	1	0	3	24	59
George Mason University	3	2	23	4	4	0	17	25	49	133
Hampton University	0	0	0	0	0	0	0	0	0	5
Old Dominion University	7	1	3	8	8	0	2	4	19	62
Regent University	0	0	0	0	0	0	0	0	7	7
Union Theol Seminary (PSCE)	0	0	0	0	0	0	0	0	10	10
University of Virginia	5	10	6	44	44	0	25	37	142	341
Virginia Commonwealth University	0	0	0	37	37	0	22	15	26	112
Virginia Polytechnic Inst & St U	4	14	2	47	26	21	20	24	94	308

See explanatory information, if any, and SOURCE at end of table.

Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	S&E rank*	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
Washington, total	21	406	83	5	9	25	9	35	57	20	37	0
Gonzaga University	320	2	0	0	0	0	0	0	0	0	0	0
Seattle Pacific University	340	0	0	0	0	0	0	0	0	0	0	0
Seattle University	340	0	0	0	0	0	0	0	0	0	0	0
University of Washington Seattle	15	323	68	5	5	22	7	29	50	16	34	0
Washington State University	100	81	15	0	4	3	2	6	7	4	3	0
West Virginia, total	40	94	19	3	2	3	6	5	14	7	7	0
Marshall University	320	2	0	0	0	0	0	0	0	0	0	0
West Virginia University	89	92	19	3	2	3	6	5	14	7	7	0
Wisconsin, total	16	566	117	17	6	30	25	39	79	32	46	1
Marquette University	222	20	7	0	1	3	0	3	4	0	4	0
Medical College of Wisconsin	267	10	0	0	0	0	0	0	0	0	0	0
U of Wisconsin Madison	2	495	104	17	5	23	24	35	64	27	36	1
U of Wisconsin Milwaukee	156	41	6	0	0	4	1	1	11	5	6	0
Wyoming, total	46	54	4	1	0	1	2	0	12	2	10	0
University of Wyoming	129	54	4	1	0	1	2	0	12	2	10	0
Puerto Rico, total	41	84	0	0	0	0	0	0	7	0	7	0
Carlos Albizu University	151	43	0	0	0	0	0	0	0	0	0	0
Inter American U PR Metropolitan	340	0	0	0	0	0	0	0	0	0	0	0
U of PR Mayaguez Campus	297	4	0	0	0	0	0	0	0	0	0	0
U of PR Medical Science Campus	277	8	0	0	0	0	0	0	0	0	0	0
U of PR Rio Piedras	184	29	0	0	0	0	0	0	7	0	7	0

See explanatory information, if any, and SOURCE at end of table.

Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 2000

[To increase readability, fields span two pages and institutions are repeated on facing pages.]

State and institution	Earth, atmos., & ocean sciences	Mathematics	Computer sciences	Biological & agricultural sciences			Psychology	Social sciences	Non-S&E, total	Grand total, all fields
				Total	Biological	Agricultural				
Washington, total	26	15	10	131	114	17	18	66	228	634
Gonzaga University	0	0	0	0	0	0	1	1	9	11
Seattle Pacific University	0	0	0	0	0	0	0	0	8	8
Seattle University	0	0	0	0	0	0	0	0	11	11
University of Washington Seattle	24	11	9	97	86	11	13	51	163	486
Washington State University	2	4	1	34	28	6	4	14	37	118
West Virginia, total	2	1	3	24	13	11	22	9	40	134
Marshall University	0	0	0	2	2	0	0	0	0	2
West Virginia University	2	1	3	22	11	11	22	9	40	132
Wisconsin, total	13	20	17	210	163	47	37	73	303	869
Marquette University	0	1	0	4	4	0	4	0	34	54
Medical College of Wisconsin	0	0	0	10	10	0	0	0	0	10
U of Wisconsin Madison	13	16	15	190	143	47	27	66	233	728
U of Wisconsin Milwaukee	0	3	2	6	6	0	6	7	36	77
Wyoming, total	5	2	0	20	13	7	6	5	18	72
University of Wyoming	5	2	0	20	13	7	6	5	18	72
Puerto Rico, total	4	0	0	12	12	0	60	1	46	130
Carlos Albizu University	0	0	0	0	0	0	43	0	0	43
Inter American U PR Metropolitan	0	0	0	0	0	0	0	0	23	23
U of PR Mayaguez Campus	4	0	0	0	0	0	0	0	0	4
U of PR Medical Science Campus	0	0	0	8	8	0	0	0	0	8
U of PR Rio Piedras	0	0	0	4	4	0	17	1	23	52

KEY: - = Not applicable
* = States are ranked 1 to 51 and institutions are ranked 1 to 340.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

Table 7. Postgraduation plans of science and engineering (S&E) doctorate recipients, by citizenship status and major field: 2000

Field of study	Total	Definite plans								Location unknown
		Total with definite plans	In the United States					Abroad		
			Total in U.S.	Postdoc study	Academic employment	Industry employment	Other			
	All recipients									
Science and engineering, total	25,979	16,861	15,185	6,386	3,191	3,768	1,840	1,613	83	
Engineering, total	5,330	3,342	2,953	630	340	1,685	298	376	13	
Aeronautical/astronautical	215	131	119	33	9	50	27	12	0	
Chemical	726	483	412	108	26	259	19	70	1	
Civil	558	319	263	70	57	101	35	54	2	
Electrical	1,544	1,003	915	101	94	638	82	84	4	
Industrial	176	119	97	9	29	49	10	22	0	
Materials/metallurgical	451	282	250	73	18	137	22	31	1	
Mechanical	864	516	471	94	52	280	45	43	2	
Other engineering	796	489	426	142	55	171	58	60	3	
Sciences, total	20,649	13,519	12,232	5,756	2,851	2,083	1,542	1,237	50	
Physical sciences, total	3,411	2,288	2,082	1,166	167	635	114	194	12	
Astronomy	187	136	118	85	9	15	9	18	0	
Chemistry	1,990	1,368	1,270	714	103	399	54	92	6	
Physics	1,205	766	677	361	52	215	49	83	6	
Other physical sciences	29	18	17	6	3	6	2	1	0	
Earth, atmospheric, and ocean sciences	757	480	419	215	77	70	57	58	3	
Mathematics	1,048	729	653	213	263	137	40	74	2	
Computer sciences	861	597	541	47	179	274	41	49	7	
Biological sciences	5,855	4,007	3,758	2,902	344	297	215	237	12	
Agricultural sciences	943	569	423	159	108	106	50	142	4	
Psychology	3,623	2,229	2,170	786	501	309	574	53	6	
Social sciences	4,151	2,620	2,186	268	1,212	255	451	430	4	
Non-S&E, total	15,389	9,850	9,010	592	5,149	699	2,570	810	30	
Grand total, all fields	41,368	26,711	24,195	6,978	8,340	4,467	4,410	2,423	93	

See explanatory information, if any, and SOURCE at end of table.

Table 7. Postgraduation plans of science and engineering (S&E) doctorate recipients, by citizenship status and major field: 2000

Field of study	Total	Definite plans								Location unknown
		Total with definite plans	In the United States					Abroad	
			Total in U.S.	Postdoc study	Academic employment	Industry employment	Other		
	U.S. citizens								
Science and engineering, total	15,655	11,049	10,679	4,283	2,605	2,168	1,623	341	29
Engineering, total	2,206	1,592	1,552	292	235	765	260	37	3
Aeronautical/astronautical	117	80	80	16	6	33	25	0	0
Chemical	338	249	243	50	21	157	15	6	0
Civil	219	144	141	25	45	46	25	3	0
Electrical	527	395	385	39	53	220	73	9	1
Industrial	67	49	47	5	19	15	8	2	0
Materials/metallurgical	221	155	147	38	14	73	22	8	0
Mechanical	339	239	234	37	36	122	39	5	0
Other engineering	378	281	275	82	41	99	53	4	2
Sciences, total	13,449	9,457	9,127	3,991	2,370	1,403	1,363	304	26
Physical sciences, total	1,885	1,394	1,316	687	145	402	82	73	5
Astronomy	128	101	87	60	9	11	7	14	0
Chemistry	1,116	853	824	420	95	268	41	26	3
Physics	622	426	391	202	38	118	33	33	2
Other physical sciences	19	14	14	5	3	5	1	0	0
Earth, atmospheric, and ocean sciences	475	337	321	151	69	49	52	15	1
Mathematics	513	395	386	100	188	67	31	9	0
Computer sciences	387	290	280	20	112	113	35	7	3
Biological sciences	3,895	2,842	2,741	2,022	300	228	191	93	8
Agricultural sciences	446	293	282	67	97	74	44	10	1
Psychology	3,146	2,093	2,067	741	467	298	561	20	6
Social sciences	2,702	1,813	1,734	203	992	172	367	77	2
Non-S&E, total	12,233	8,365	8,192	485	4,624	592	2,491	151	22
Grand total, all fields	27,888	19,414	18,871	4,768	7,229	2,760	4,114	492	51

See explanatory information, if any, and SOURCE at end of table.

Table 7. Postgraduation plans of science and engineering (S&E) doctorate recipients, by citizenship status and major field: 2000

Field of study	Total	Definite plans							
		Total with definite plans	In the United States				Abroad	Location unknown
			Total in U.S.	Postdoc study	Academic employment	Industry employment	Other		
	Non-U.S. citizens with permanent visas								
Science and engineering, total	1,409	844	787	309	148	285	45	53	4
Engineering, total	350	224	213	36	27	142	8	9	2
Aeronautical/astronautical	10	7	7	3	0	4	0	0	0
Chemical	42	22	19	3	1	14	1	2	1
Civil	41	26	26	3	4	16	3	0	0
Electrical	116	77	74	4	7	61	2	2	1
Industrial	10	9	7	1	3	3	0	2	0
Materials/metallurgical	22	15	14	4	2	8	0	1	0
Mechanical	56	35	35	10	4	21	0	0	0
Other engineering	53	33	31	8	6	15	2	2	0
Sciences, total	1,059	620	574	273	121	143	37	44	2
Physical sciences, total	199	129	123	51	8	54	10	6	0
Astronomy	12	6	6	4	0	0	2	0	0
Chemistry	120	80	76	30	2	40	4	4	0
Physics	66	42	40	17	6	14	3	2	0
Other physical sciences	1	1	1	0	0	0	1	0	0
Earth, atmospheric, and ocean sciences	34	20	19	10	1	6	2	1	0
Mathematics	55	33	33	7	16	10	0	0	0
Computer sciences	71	54	49	4	14	31	0	4	1
Biological sciences	365	216	208	164	18	17	9	7	1
Agricultural sciences	55	26	20	8	3	8	1	6	0
Psychology	75	37	32	13	13	3	3	5	0
Social sciences	205	105	90	16	48	14	12	15	0
Non-S&E, total	540	292	253	23	164	31	35	37	2
Grand total, all fields	1,949	1,136	1,040	332	312	316	80	90	6

See explanatory information, if any, and SOURCE at end of table.

Table 7. Postgraduation plans of science and engineering (S&E) doctorate recipients, by citizenship status and major field: 2000

Field of study	Total	Definite plans								
		Total with definite plans	In the United States					Abroad	Location unknown
			Total in U.S.	Postdoc study	Academic employment	Industry employment	Other		
	Non-U.S. citizens with temporary visas								
Science and engineering, total	7,648	4,946	3,701	1,787	436	1,309	169	1,219	26
Engineering, total	2,444	1,519	1,181	302	77	773	29	330	8
Aeronautical/astronautical	75	44	32	14	3	13	2	12	0
Chemical	308	210	148	55	4	86	3	62	0
Civil	280	148	95	42	8	38	7	51	2
Electrical	777	529	454	58	34	356	6	73	2
Industrial	93	61	43	3	7	31	2	18	0
Materials/metallurgical	181	111	88	31	2	55	0	22	1
Mechanical	431	241	201	47	11	137	6	38	2
Other engineering	299	175	120	52	8	57	3	54	1
Sciences, total	5,204	3,427	2,520	1,485	359	536	140	889	18
Physical sciences, total	1,156	760	638	424	14	179	21	115	7
Astronomy	43	28	24	20	0	4	0	4	0
Chemistry	648	432	367	262	6	91	8	62	3
Physics	457	297	245	141	8	83	13	48	4
Other physical sciences	8	3	2	1	0	1	0	1	0
Earth, atmospheric, and ocean sciences	202	121	78	53	7	15	3	42	1
Mathematics	442	299	233	105	59	60	9	65	1
Computer sciences	361	250	209	23	52	129	5	38	3
Biological sciences	1,390	947	808	715	26	52	15	137	2
Agricultural sciences	416	249	121	84	8	24	5	126	2
Psychology	164	99	71	32	21	8	10	28	0
Social sciences	1,073	702	362	49	172	69	72	338	2
Non-S&E, total	2,000	1,190	564	84	360	76	44	621	5
Grand total, all fields	9,648	6,136	4,265	1,871	796	1,385	213	1,840	31

NOTE: Details may not add to totals because of persons with unknown citizenship.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

Table 8. Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients, by citizenship status and major field: 2000

Field of study	Definite plans	In the United States					Abroad	Location unknown
		Total in U.S.	Postdoc study	Academic employment	Industry employment	Other		
	All recipients							
Science and engineering, total	100.0	90.1	37.9	18.9	22.3	10.9	9.6	0.4
Engineering, total	100.0	88.4	18.9	10.2	50.4	8.9	11.3	.4
Aeronautical/astronautical	100.0	90.8	25.2	6.9	38.2	20.6	9.2	0
Chemical	100.0	85.3	22.4	5.4	53.6	3.9	14.5	.2
Civil	100.0	82.4	21.9	17.9	31.7	11.0	16.9	.6
Electrical	100.0	91.2	10.1	9.4	63.6	8.2	8.4	.4
Industrial	100.0	81.5	7.6	24.4	41.2	8.4	18.5	0
Materials/metallurgical	100.0	88.7	25.9	6.4	48.6	7.8	11.0	.4
Mechanical	100.0	91.3	18.2	10.1	54.3	8.7	8.3	.4
Other engineering	100.0	87.1	29.0	11.2	35.0	11.9	12.3	.6
Sciences, total	100.0	90.5	42.6	21.1	15.4	11.4	9.2	.4
Physical sciences, total	100.0	91.0	51.0	7.3	27.8	5.0	8.5	.5
Astronomy	100.0	86.8	62.5	6.6	11.0	6.6	13.2	0
Chemistry	100.0	92.8	52.2	7.5	29.2	3.9	6.7	.4
Physics	100.0	88.4	47.1	6.8	28.1	6.4	10.8	.8
Other physical sciences	100.0	94.4	33.3	16.7	33.3	11.1	5.6	0
Earth, atmospheric, and ocean sciences	100.0	87.3	44.8	16.0	14.6	11.9	12.1	.6
Mathematics	100.0	89.6	29.2	36.1	18.8	5.5	10.2	.3
Computer sciences	100.0	90.6	7.9	30.0	45.9	6.9	8.2	1.2
Biological sciences	100.0	93.8	72.4	8.6	7.4	5.4	5.9	.3
Agricultural sciences	100.0	74.3	27.9	19.0	18.6	8.8	25.0	.7
Psychology	100.0	97.4	35.3	22.5	13.9	25.8	2.4	.3
Social sciences	100.0	83.4	10.2	46.3	9.7	17.2	16.4	.2
Non-S&E, total	100.0	91.5	6.0	52.3	7.1	26.1	8.2	.3
Grand total, all fields	100.0	90.6	26.1	31.2	16.7	16.5	9.1	.3
	U.S. citizens							
Science and engineering, total	100.0	96.7	38.8	23.6	19.6	14.7	3.1	0.3
Engineering, total	100.0	97.8	18.3	14.8	48.1	16.3	2.3	.2
Aeronautical/astronautical	100.0	100.0	20.0	7.5	41.2	31.3	0	0
Chemical	100.0	97.6	20.1	8.4	63.1	6.0	2.4	0
Civil	100.0	97.9	17.4	31.3	31.9	17.4	2.1	0
Electrical	100.0	97.5	9.9	13.4	55.7	18.5	2.3	.3
Industrial	100.0	95.9	10.2	38.8	30.6	16.3	4.1	0
Materials/metallurgical	100.0	94.8	24.5	9.0	47.1	14.2	5.2	0
Mechanical	100.0	97.9	15.5	15.1	51.0	16.3	2.1	0
Other engineering	100.0	97.9	29.2	14.6	35.2	18.9	1.4	.7
Sciences, total	100.0	96.5	42.2	25.1	14.8	14.4	3.2	.3
Physical sciences, total	100.0	94.4	49.3	10.4	28.8	5.9	5.2	.4
Astronomy	100.0	86.1	59.4	8.9	10.9	6.9	13.9	0
Chemistry	100.0	96.6	49.2	11.1	31.4	4.8	3.0	.4
Physics	100.0	91.8	47.4	8.9	27.7	7.7	7.7	.5
Other physical sciences	100.0	100.0	35.7	21.4	35.7	7.1	0	0
Earth, atmospheric, and ocean sciences	100.0	95.3	44.8	20.5	14.5	15.4	4.5	.3
Mathematics	100.0	97.7	25.3	47.6	17.0	7.8	2.3	0
Computer sciences	100.0	96.6	6.9	38.6	39.0	12.1	2.4	1.0
Biological sciences	100.0	96.4	71.1	10.6	8.0	6.7	3.3	.3
Agricultural sciences	100.0	96.2	22.9	33.1	25.3	15.0	3.4	.3
Psychology	100.0	98.8	35.4	22.3	14.2	26.8	1.0	.3
Social sciences	100.0	95.8	11.2	54.7	9.5	20.2	4.2	.1
Non-S&E, total	100.0	97.9	5.8	55.3	7.1	29.8	1.8	.3
Grand total, all fields	100.0	97.2	24.6	37.2	14.2	21.2	2.5	.3

See explanatory information, if any, and SOURCE at end of table.

Table 8. Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients, by citizenship status and major field: 2000

Field of study	Definite plans	In the United States					Abroad	Location unknown
		Total in U.S.	Postdoc study	Academic employment	Industry employment	Other		
	Non-U.S. citizens with permanent visas							
Science and engineering, total	100.0	93.2	38.6	17.5	33.8	5.3	6.3	0.5
Engineering, total	100.0	95.1	16.1	12.1	63.4	3.6	4.0	.9
Aeronautical/astronautical	100.0	100.0	42.9	0	57.1	0	0	0
Chemical	100.0	86.4	13.6	4.5	63.6	4.5	9.1	4.5
Civil	100.0	100.0	11.5	15.4	61.5	11.5	0	0
Electrical	100.0	96.1	5.2	9.1	79.2	2.6	2.6	1.3
Industrial	100.0	77.8	11.1	33.3	33.3	0	22.2	0
Materials/metallurgical	100.0	93.3	26.7	13.3	53.3	0	6.7	0
Mechanical	100.0	100.0	28.6	11.4	60.0	0	0	0
Other engineering	100.0	93.9	24.2	18.2	45.5	6.1	6.1	0
Sciences, total	100.0	92.6	44.0	19.5	23.1	6.0	7.1	.3
Physical sciences, total	100.0	95.3	39.5	6.2	41.9	7.8	4.7	0
Astronomy	100.0	100.0	66.7	0	0	33.3	0	0
Chemistry	100.0	95.0	37.5	2.5	50.0	5.0	5.0	0
Physics	100.0	95.2	40.5	14.3	33.3	7.1	4.8	0
Other physical sciences	100.0	100.0	0	0	0	100.0	0	0
Earth, atmospheric, and ocean sciences	100.0	95.0	50.0	5.0	30.0	10.0	5.0	0
Mathematics	100.0	100.0	21.2	48.5	30.3	0	0	0
Computer sciences	100.0	90.7	7.4	25.9	57.4	0	7.4	1.9
Biological sciences	100.0	96.3	75.9	8.3	7.9	4.2	3.2	.5
Agricultural sciences	100.0	76.9	30.8	11.5	30.8	3.8	23.1	0
Psychology	100.0	86.5	35.1	35.1	8.1	8.1	13.5	0
Social sciences	100.0	85.7	15.2	45.7	13.3	11.4	14.3	0
Non-S&E, total	100.0	86.6	7.9	56.2	10.6	12.0	12.7	.7
Grand total, all fields	100.0	91.5	29.2	27.5	27.8	7.0	7.9	.5
	Non-U.S. citizens with temporary visas							
Science and engineering, total	100.0	74.8	36.1	8.8	26.5	3.4	24.6	0.5
Engineering, total	100.0	77.7	19.9	5.1	50.9	1.9	21.7	.5
Aeronautical/astronautical	100.0	72.7	31.8	6.8	29.5	4.5	27.3	0
Chemical	100.0	70.5	26.2	1.9	41.0	1.4	29.5	0
Civil	100.0	64.2	28.4	5.4	25.7	4.7	34.5	1.4
Electrical	100.0	85.8	11.0	6.4	67.3	1.1	13.8	.4
Industrial	100.0	70.5	4.9	11.5	50.8	3.3	29.5	0
Materials/metallurgical	100.0	79.3	27.9	1.8	49.5	0	19.8	.9
Mechanical	100.0	83.4	19.5	4.6	56.8	2.5	15.8	.8
Other engineering	100.0	68.6	29.7	4.6	32.6	1.7	30.9	.6
Sciences, total	100.0	73.5	43.3	10.5	15.6	4.1	25.9	.5
Physical sciences, total	100.0	83.9	55.8	1.8	23.6	2.8	15.1	.9
Astronomy	100.0	85.7	71.4	0	14.3	0	14.3	0
Chemistry	100.0	85.0	60.6	1.4	21.1	1.9	14.4	.7
Physics	100.0	82.5	47.5	2.7	27.9	4.4	16.2	1.3
Other physical sciences	100.0	66.7	33.3	0	33.3	0	33.3	0
Earth, atmospheric, and ocean sciences	100.0	64.5	43.8	5.8	12.4	2.5	34.7	.8
Mathematics	100.0	77.9	35.1	19.7	20.1	3.0	21.7	.3
Computer sciences	100.0	83.6	9.2	20.8	51.6	2.0	15.2	1.2
Biological sciences	100.0	85.3	75.5	2.7	5.5	1.6	14.5	.2
Agricultural sciences	100.0	48.6	33.7	3.2	9.6	2.0	50.6	.8
Psychology	100.0	71.7	32.3	21.2	8.1	10.1	28.3	0
Social sciences	100.0	51.6	7.0	24.5	9.8	10.3	48.1	.3
Non-S&E, total	100.0	47.4	7.1	30.3	6.4	3.7	52.2	.4
Grand total, all fields	100.0	69.5	30.5	13.0	22.6	3.5	30.0	.5

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

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Table 9. Postgraduation plans of science and engineering (S&E) doctorate recipients (U.S. citizens and non-U.S. citizens with permanent visas), by sex and major field: 2000

Field of study	Total	Definite plans								
		Total with definite plans	In the United States					Abroad	Location unknown
			Total in U.S.	Postdoc study	Academic employment	Industry employment	Other		
	All recipients								
Science and engineering, total	17,064	11,893	11,466	4,592	2,753	2,453	1,668	394	33
Engineering, total	2,556	1,816	1,765	328	262	907	268	46	5
Aeronautical/astronautical	127	87	87	19	6	37	25	0	0
Chemical	380	271	262	53	22	171	16	8	1
Civil	260	170	167	28	49	62	28	3	0
Electrical	643	472	459	43	60	281	75	11	2
Industrial	77	58	54	6	22	18	8	4	0
Materials/metallurgical	243	170	161	42	16	81	22	9	0
Mechanical	395	274	269	47	40	143	39	5	0
Other engineering	431	314	306	90	47	114	55	6	2
Sciences, total	14,508	10,077	9,701	4,264	2,491	1,546	1,400	348	28
Physical sciences, total	2,084	1,523	1,439	738	153	456	92	79	5
Astronomy	140	107	93	64	9	11	9	14	0
Chemistry	1,236	933	900	450	97	308	45	30	3
Physics	688	468	431	219	44	132	36	35	2
Other physical sciences	20	15	15	5	3	5	2	0	0
Earth, atmospheric, and ocean sciences	509	357	340	161	70	55	54	16	1
Mathematics	568	428	419	107	204	77	31	9	0
Computer sciences	458	344	329	24	126	144	35	11	4
Biological sciences	4,260	3,058	2,949	2,186	318	245	200	100	9
Agricultural sciences	501	319	302	75	100	82	45	16	1
Psychology	3,221	2,130	2,099	754	480	301	564	25	6
Social sciences	2,907	1,918	1,824	219	1,040	186	379	92	2
Non-S&E, total	12,773	8,657	8,445	508	4,788	623	2,526	188	24
Grand total, all fields	29,837	20,550	19,911	5,100	7,541	3,076	4,194	582	57

See explanatory information, if any, and SOURCE at end of table.

Table 9. Postgraduation plans of science and engineering (S&E) doctorate recipients (U.S. citizens and non-U.S. citizens with permanent visas), by sex and major field: 2000

Field of study	Total	Definite plans							
		Total with definite plans	In the United States				Abroad	Location unknown
			Total in U.S.	Postdoc study	Academic employment	Industry employment	Other		
	Women								
Science and engineering, total	7,114	4,747	4,621	1,968	1,190	710	753	112	14
Engineering, total	484	321	312	71	56	144	41	7	2
Aeronautical/astronautical	14	9	9	2	0	5	2	0	0
Chemical	99	67	66	8	12	41	5	1	0
Civil	48	30	30	9	8	9	4	0	0
Electrical	90	58	55	6	10	31	8	2	1
Industrial	18	12	11	1	4	3	3	1	0
Materials/metallurgical	53	30	29	12	4	12	1	1	0
Mechanical	56	39	39	6	7	21	5	0	0
Other engineering	106	76	73	27	11	22	13	2	1
Sciences, total	6,630	4,426	4,309	1,897	1,134	566	712	105	12
Physical sciences, total	547	394	380	179	46	126	29	13	1
Astronomy	36	26	22	15	2	2	3	4	0
Chemistry	422	318	312	142	37	110	23	5	1
Physics	83	45	41	20	7	12	2	4	0
Other physical sciences	6	5	5	2	0	2	1	0	0
Earth, atmospheric, and ocean sciences	167	111	107	60	18	12	17	3	1
Mathematics	163	122	122	25	70	19	8	0	0
Computer sciences	86	64	62	4	27	21	10	0	2
Biological sciences	1,984	1,380	1,338	960	171	110	97	39	3
Agricultural sciences	165	99	94	30	29	22	13	4	1
Psychology	2,175	1,412	1,3[illegible]	529	306	188	373	12	4
Social sciences	1,343	844	810	110	467	68	165	34	0
Non-S&E, total	7,474	5,017	4,930	309	2,767	328	1,526	75	12
Grand total, all fields	14,588	9,764	9,551	2,277	3,957	1,038	2,279	187	26

See explanatory information, if any, and SOURCE at end of table.

Table 9. Postgraduation plans of science and engineering (S&E) doctorate recipients (U.S. citizens and non-U.S. citizens with permanent visas), by sex and major field: 2000

Field of study	Total	Definite plans							
		Total with definite plans	In the United States				Abroad	Location unknown
			Total in U.S.	Postdoc study	Academic employment	Industry employment	Other		
	Men								
Science and engineering, total	9,950	7,146	6,845	2,624	1,563	1,743	915	282	19
Engineering, total	2,072	1,495	1,453	257	206	763	227	39	3
Aeronautical/astronautical	113	78	78	17	6	32	23	0	0
Chemical	281	204	196	45	10	130	11	7	1
Civil	212	140	137	19	41	53	24	3	0
Electrical	553	414	404	37	50	250	67	9	1
Industrial	59	46	43	5	18	15	5	3	0
Materials/metallurgical	190	140	132	30	12	69	21	8	0
Mechanical	339	235	230	41	33	122	34	5	0
Other engineering	325	238	233	63	36	92	42	4	1
Sciences, total	7,878	5,651	5,392	2,367	1,357	980	688	243	16
Physical sciences, total	1,537	1,129	1,059	559	107	330	63	66	4
Astronomy	104	81	71	49	7	9	6	10	0
Chemistry	814	615	588	308	60	198	22	25	2
Physics	605	423	390	199	37	120	34	31	2
Other physical sciences	14	10	10	3	3	3	1	0	0
Earth, atmospheric, and ocean sciences	342	246	233	101	52	43	37	13	0
Mathematics	405	306	297	82	134	58	23	9	0
Computer sciences	372	280	267	20	99	123	25	11	2
Biological sciences	2,276	1,678	1,611	1,226	147	135	103	61	6
Agricultural sciences	336	220	208	45	71	60	32	12	0
Psychology	1,046	718	703	225	174	113	191	13	2
Social sciences	1,564	1,074	1,014	109	573	118	214	58	2
Non-S&E, total	5,299	3,640	3,515	199	2,021	295	1,000	113	12
Grand total, all fields	15,249	10,786	10,360	2,823	3,584	2,038	1,915	395	31

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates

Table 10. Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients (U.S. citizens and non-U.S. citizens with permanent visas), by sex and major field: 2000

Field of study	Definite plans	In the United States					Abroad	Location unknown
		Total in U.S.	Postdoc study	Academic employment	Industry employment	Other		
	All recipients							
Science and engineering, total	100.0	96.4	38.6	23.1	20.6	14.0	3.3	0.3
Engineering, total	100.0	97.2	18.1	14.4	49.9	14.8	2.5	.3
Aeronautical/astronautical	100.0	100.0	21.8	6.9	42.5	28.7	0	0
Chemical	100.0	96.7	19.6	8.1	63.1	5.9	3.0	.4
Civil	100.0	98.2	16.5	28.8	36.5	16.5	1.8	0
Electrical	100.0	97.2	9.1	12.7	59.5	15.9	2.3	.4
Industrial	100.0	93.1	10.3	37.9	31.0	13.8	6.9	0
Materials/metallurgical	100.0	94.7	24.7	9.4	47.6	12.9	5.3	0
Mechanical	100.0	98.2	17.2	14.6	52.2	14.2	1.8	0
Other engineering	100.0	97.5	28.7	15.0	36.3	17.5	1.9	.6
Sciences, total	100.0	96.3	42.3	24.7	15.3	13.9	3.5	.3
Physical sciences, total	100.0	94.5	48.5	10.0	29.9	6.0	5.2	.3
Astronomy	100.0	86.9	59.8	8.4	10.3	8.4	13.1	0
Chemistry	100.0	96.5	48.2	10.4	33.0	4.8	3.2	.3
Physics	100.0	92.1	46.8	9.4	28.2	7.7	7.5	.4
Other physical sciences	100.0	100.0	33.3	20.0	33.3	13.3	0	0
Earth, atmospheric, and ocean sciences	100.0	95.2	45.1	19.6	15.4	15.1	4.5	.3
Mathematics	100.0	97.9	25.0	47.7	18.0	7.2	2.1	0
Computer sciences	100.0	95.6	7.0	36.6	41.9	10.2	3.2	1.2
Biological sciences	100.0	96.4	71.5	10.4	8.0	6.5	3.3	.3
Agricultural sciences	100.0	94.7	23.5	31.3	25.7	14.1	5.0	.3
Psychology	100.0	98.5	35.4	22.5	14.1	26.5	1.2	.3
Social sciences	100.0	95.1	11.4	54.2	9.7	19.8	4.8	.1
Non-S&E, total	100.0	97.6	5.9	55.3	7.2	29.2	2.2	.3
Grand total, all fields	100.0	96.9	24.8	36.7	15.0	20.4	2.8	.3

See explanatory information, if any, and SOURCE at end of table.

Table 10. Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients (U.S. citizens and non-U.S. citizens with permanent visas), by sex and major field: 2000

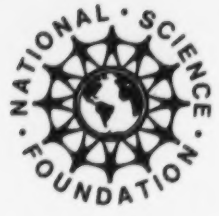
Field of study	Definite plans	In the United States					Abroad	Location unknown
		Total in U.S.	Postdoc study	Academic employment	Industry employment	Other		
	Women							
Science and engineering, total	100.0	97.3	41.5	25.1	15.0	15.9	2.4	0.3
Engineering, total	100.0	97.2	22.1	17.4	44.9	12.8	2.2	.6
Aeronautical/astronautical	100.0	100.0	22.2	0	55.6	22.2	0	0
Chemical	100.0	98.5	11.9	17.9	61.2	7.5	1.5	0
Civil	100.0	100.0	30.0	26.7	30.0	13.3	0	0
Electrical	100.0	94.8	10.3	17.2	53.4	13.8	3.4	1.7
Industrial	100.0	91.7	8.3	33.3	25.0	25.0	8.3	0
Materials/metallurgical	100.0	96.7	40.0	13.3	40.0	3.3	3.3	0
Mechanical	100.0	100.0	15.4	17.9	53.8	12.8	0	0
Other engineering	100.0	96.1	35.5	14.5	28.9	17.1	2.6	1.3
Sciences, total	100.0	97.4	42.9	25.6	12.8	16.1	2.4	.3
Physical sciences, total	100.0	96.4	45.4	11.7	32.0	7.4	3.3	.3
Astronomy	100.0	84.6	57.7	7.7	7.7	11.5	15.4	0
Chemistry	100.0	98.1	44.7	11.6	34.6	7.2	1.6	.3
Physics	100.0	91.1	44.4	15.6	26.7	4.4	8.9	0
Other physical sciences	100.0	100.0	40.0	0	40.0	20.0	0	0
Earth, atmospheric, and ocean sciences	100.0	96.4	54.1	16.2	10.8	15.3	2.7	.9
Mathematics	100.0	100.0	20.5	57.4	15.6	6.6	0	0
Computer sciences	100.0	96.9	6.3	42.2	32.8	15.6	0	3.1
Biological sciences	100.0	97.0	69.6	12.4	8.0	7.0	2.8	.2
Agricultural sciences	100.0	94.9	30.3	29.3	22.2	13.1	4.0	1.0
Psychology	100.0	98.9	37.5	21.7	13.3	26.4	.8	.3
Social sciences	100.0	96.0	13.0	55.3	8.1	19.5	4.0	0
Non-S&E, total	100.0	98.3	6.2	55.2	6.5	30.4	1.5	.2
Grand total, all fields	100.0	97.8	23.3	40.5	10.6	23.3	1.9	.3

See explanatory information, if any, and SOURCE at end of table.

Table 10. Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients (U.S. citizens and non-U.S. citizens with permanent visas), by sex and major field: 2000

Field of study	Definite plans	In the United States					Abroad	Location unknown
		Total in U.S.	Postdoc study	Academic employment	Industry employment	Other		
	Men							
Science and engineering, total	100.0	95.8	36.7	21.9	24.4	12.8	3.9	0.3
Engineering, total	100.0	97.2	17.2	13.8	51.0	15.2	2.6	.2
Aeronautical/astronautical	100.0	100.0	21.8	7.7	41.0	29.5	0	0
Chemical	100.0	96.1	22.1	4.9	63.7	5.4	3.4	.5
Civil	100.0	97.9	13.6	29.3	37.9	17.1	2.1	0
Electrical	100.0	97.6	8.9	12.1	60.4	16.2	2.2	.2
Industrial	100.0	93.5	10.9	39.1	32.6	10.9	6.5	0
Materials/metallurgical	100.0	94.3	21.4	8.6	49.3	15.0	5.7	0
Mechanical	100.0	97.9	17.4	14.0	51.9	14.5	2.1	0
Other engineering	100.0	97.9	26.5	15.1	38.7	17.6	1.7	.4
Sciences, total	100.0	95.4	41.9	24.0	17.3	12.2	4.3	.3
Physical sciences, total	100.0	93.8	49.5	9.5	29.2	5.6	5.8	.4
Astronomy	100.0	87.7	60.5	8.6	11.1	7.4	12.3	0
Chemistry	100.0	95.6	50.1	9.8	32.2	3.6	4.1	.3
Physics	100.0	92.2	47.0	8.7	28.4	8.0	7.3	.5
Other physical sciences	100.0	100.0	30.0	30.0	30.0	10.0	0	0
Earth, atmospheric, and ocean sciences	100.0	94.7	41.1	21.1	17.5	15.0	5.3	0
Mathematics	100.0	97.1	26.8	43.8	19.0	7.5	2.9	0
Computer sciences	100.0	95.4	7.1	35.4	43.9	8.9	3.9	.7
Biological sciences	100.0	96.0	73.1	8.8	8.0	6.1	3.6	.4
Agricultural sciences	100.0	94.5	20.5	32.3	27.3	14.5	5.5	0
Psychology	100.0	97.9	31.3	24.2	15.7	26.6	1.8	.3
Social sciences	100.0	94.4	10.1	53.4	11.0	19.9	5.4	.2
Non-S&E, total	100.0	96.6	5.5	55.5	8.1	27.5	3.1	.3
Grand total, all fields	100.0	96.1	26.2	33.2	18.9	17.8	3.7	.3

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Earned Doctorates



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